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<b>(21) International Application Number:</b> PCT/US99/24205 <b>(22) International Filing Date:</b> 15 October 1999 (15.10.99) <b>(30) Priority Data:</b> 60/104,435 15 October 1998 (15.10.98) US <b>(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application</b> US 60/104,435 (CIP) Filed on 15 October 1998 (15.10.98) <b>(71) Applicant (for all designated States except US):</b> GENETICS INSTITUTE, INC. [US/US]; 87 CambridgePark Drive, Cambridge, MA 02140 (US). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> JACOBS, Kenneth [US/US]; 151 Beaumont Avenue, Newton, MA 02160 (US). MCCOY, John, M. [GB/US]; 56 Howard Street, Reading, MA 01867 (US). LaVALLIE, Edward, R. [US/US]; 113 Ann Lee Road, Harvard, MA 01451 (US). COLLINS-RACIE, Lisa, A. [US/US]; 124 School Street, Acton, MA 01720 (US). EVANS, Cheryl [GB/US]; 18801 Bent Willow Circle, Germantown, MD 20874 (US).		MERBERG, David [US/US]; 2 Orchard Drive, Acton, MA 01720 (US). TREACY, Maurice [IE/IE]; 12 Foxrock Court, Dublin 18 (IE). <b>(74) Agent:</b> SPRUNGER, Suzanne, A.; American Home Products Corporation, Patent & Trademark Dept. - 2B, One Campus Drive, Parsippany, NJ 07054 (US). <b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). <b>Published</b> <i>With international search report.          Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> SECRETED EXPRESSED SEQUENCE TAGS (sESTs) <b>(57) Abstract</b> Secreted expressed sequence tags (sESTs) isolated from a variety of human tissue sources are provided.		

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SECRETED EXPRESSED SEQUENCE TAGS (sESTs)

5

FIELD OF THE INVENTION

The present invention provides novel polynucleotides which are expressed sequence tags (ESTs) for secreted proteins.

### BACKGROUND OF THE INVENTION

Gargantuan efforts have been employed by various investigational projects to randomly sequence portions of naturally-occurring cDNAs. The rationale behind this approach to identification and sequencing genes is founded in two basic principles: (1) that transcribed cDNAs represent the product of the most important genes, namely those that are actually expressed *in vivo*, and (2) that efforts to sequence genes and other portions of the genome of target organisms which are not actually expressed wastes substantial effort on areas not likely to yield genetic information of therapeutic importance. Thus, the high-throughput sequencing efforts focus on only those portions of the genome which are expressed. The randomly produced cDNA sequences represent "expressed sequence tags" or "ESTs", which identify and can be used as probes for the longer, full-length cDNA or genomic sequence from which they were transcribed.

Although this "shortcut" approach to genomic sequencing presents savings of effort compared to sequencing of the complete genome, it still produced a vast array of ESTs which may not be directly useful as protein therapeutics. To date, the majority of protein-related drug discovery has focused on the use of secreted proteins to produce a desired therapeutic effect. Since the EST approach theoretically identifies all expressed proteins, it produces an EST library which contains a mixture of secreted proteins (such as hormones, cytokines and receptors) and non-secreted proteins (such as, for example, metabolic enzymes and cellular structural proteins), without identifying which ESTs correspond to proteins falling into either category. As a result, these methods are not optimally tailored to the needs of investigators searching for secreted proteins because they must separate the secreted "wheat" from the non-secreted "chaff", wasting effort and resources in the process.

Co-assigned U.S. Patent No. 5,536,637, which is incorporated herein by reference, provides methods for focusing genomic sequencing efforts on sequences encoding the secreted proteins which are of most interest for identification of protein therapeutics. The '637 patent discloses a "signal sequence trap" which selectively identifies ESTs for secreted proteins, namely "secreted expressed sequence tags" or "sESTs". It is to these sESTs that the present invention is directed.

### SUMMARY OF THE INVENTION

The present invention provides for sESTs isolated from a variety of human RNA/cDNA sources.

In preferred embodiments, the present invention provides an isolated  
5 polynucleotide comprising a nucleotide sequence selected from the group consisting  
of:

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or a complement of said sequence.

In other embodiments, the present invention provides an isolated  
polynucleotide consisting of a nucleotide sequence selected from the group consisting  
10 of:

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 10 NO:2157, SEQ ID NO:2158, SEQ ID NO:2159;

or a complement of said sequence.

In further embodiments, the present invention provides an isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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15 or a complement of said sequence.

In yet other embodiments, the present invention provides an isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

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5 NO:2105, SEQ ID NO:2106, SEQ ID NO:2107, SEQ ID NO:2108, SEQ ID  
NO:2109, SEQ ID NO:2110, SEQ ID NO:2111, SEQ ID NO:2112, SEQ ID  
NO:2113, SEQ ID NO:2114, SEQ ID NO:2115, SEQ ID NO:2116, SEQ ID  
NO:2117, SEQ ID NO:2118, SEQ ID NO:2119, SEQ ID NO:2120, SEQ ID  
NO:2121, SEQ ID NO:2122, SEQ ID NO:2123, SEQ ID NO:2124, SEQ ID  
10 NO:2125, SEQ ID NO:2126, SEQ ID NO:2127, SEQ ID NO:2128, SEQ ID  
NO:2129, SEQ ID NO:2130, SEQ ID NO:2131, SEQ ID NO:2132, SEQ ID  
NO:2133, SEQ ID NO:2134, SEQ ID NO:2135, SEQ ID NO:2136, SEQ ID  
NO:2137, SEQ ID NO:2138, SEQ ID NO:2139, SEQ ID NO:2140, SEQ ID  
NO:2141, SEQ ID NO:2142, SEQ ID NO:2143, SEQ ID NO:2144, SEQ ID  
15 NO:2145, SEQ ID NO:2146, SEQ ID NO:2147, SEQ ID NO:2148, SEQ ID  
NO:2149, SEQ ID NO:2150, SEQ ID NO:2151, SEQ ID NO:2152, SEQ ID  
NO:2153, SEQ ID NO:2154, SEQ ID NO:2155, SEQ ID NO:2156, SEQ ID  
NO:2157, SEQ ID NO:2158, SEQ ID NO:2159;

or to a complement of said sequence.

20 The invention also provides for proteins encoded by the above-described  
polynucleotides. In certain preferred embodiments, the polynucleotide is operably  
linked to an expression control sequence. The invention also provides a host cell,  
including bacterial, yeast, insect and mammalian cells, transformed with such  
polynucleotide compositions. Also provided by the present invention are organisms  
25 that have enhanced, reduced, or modified expression of the gene(s) corresponding  
to the polynucleotide sequences disclosed herein.

Processes are also provided for producing a protein, which comprise:

- (a) growing a culture of the host cell transformed with such  
polynucleotide compositions in a suitable culture medium; and
- 30 (b) purifying the protein from the culture.

The protein produced according to such methods is also provided by the present  
invention.

Protein compositions of the present invention may further comprise a pharmaceutically acceptable carrier. Compositions comprising an antibody which specifically reacts with such protein are also provided by the present invention.

Methods are also provided for preventing, treating or ameliorating a medical condition which comprises administering to a mammalian subject a therapeutically effective amount of a composition comprising a protein of the present invention, and/or a polynucleotide of the present invention, and a pharmaceutically acceptable carrier.

10

### DETAILED DESCRIPTION

The nucleotide sequences of the sESTs of the present invention are reported in the Sequence Listing below. Table 2 lists the "Clone ID Nos." assigned by applicants to each SEQ ID NO: in the Sequence Listing.

15 Table 2

Each pair of entries in this table consists of the SEQ ID NO (e.g., 1, 2, etc.) followed by the Clone ID No. for such sequence (e.g., AA239, AA249, etc.).

	1	PP85	17	PQ98	33	PT138	49	PT212
20	2	PP9	18	PR113	34	PT141	50	PT214
	3	PP95	19	PR24	35	PT144	51	PT215
	4	PP96	20	PR47	36	PT148	52	PT217
	5	PQ104	21	PR90	37	PT149	53	PT219
	6	PQ109	22	PS46	38	PT150	54	PT228
25	7	PQ114	23	PS48	39	PT159	55	PT230
	8	PQ12	24	PS51	40	PT16	56	PT233
	9	PQ134	25	PS59	41	PT171	57	PT249
	10	PQ15	26	PS66	42	PT179	58	PT259
	11	PQ28	27	PT109	43	PT184	59	PT26
30	12	PQ29	28	PT11	44	PT189	60	PT268
	13	PQ37	29	PT111	45	PT19	61	PT274
	14	PQ59	30	PT115	46	PT195	62	PT282
	15	PQ74	31	PT118	47	PT2	63	PT284
	16	PQ9	32	PT127	48	PT204	64	PT285

	65	PT293	99	PT398	133	PU164	167	PV110
	66	PT295	100	PT403	134	PU165	168	PV119
	67	PT296	101	PT409	135	PU169	169	PV126
	68	PT298	102	PT434	136	PU199	170	PV138
5	69	PT301	103	PT435	137	PU2	171	PV143
	70	PT307	104	PT437	138	PU214	172	PV149
	71	PT31	105	PT442	139	PU220	173	PV16
	72	PT310	106	PT444	140	PU226	174	PV163
	73	PT315	107	PT446	141	PU234	175	PV174
10	74	PT318	108	PT448	142	PU235	176	PV177
	75	PT324	109	PT449	143	PU237	177	PV183
	76	PT326	110	PT450	144	PU258	178	PV192
	77	PT328	111	PT451	145	PU26	179	PV193
	78	PT330	112	PT453	146	PU261	180	PV198
15	79	PT332	113	PT455	147	PU264	181	PV203
	80	PT334	114	PT457	148	PU274	182	PV205
	81	PT343	115	PT464	149	PU276	183	PV210
	82	PT346	116	PT57	150	PU280	184	PV213
	83	PT347	117	PT65	151	PU282	185	PV214
20	84	PT348	118	PT67	152	PU289	186	PV23
	85	PT35	119	PT71	153	PU291	187	PV231
	86	PT354	120	PT82	154	PU307	188	PV235
	87	PT355	121	PT97	155	PU312	189	PV269
	88	PT357	122	PU100	156	PU314	190	PV282
25	89	PT358	123	PU101	157	PU43	191	PV286
	90	PT364	124	PU107	158	PU56	192	PV291
	91	PT365	125	PU113	159	PU61	193	PV294
	92	PT367	126	PU116	160	PU71	194	PV296
	93	PT375	127	PU117	161	PU77	195	PV297
30	94	PT38	128	PU123	162	PU85	196	PV30
	95	PT381	129	PU124	163	PU86	197	PV306
	96	PT383	130	PU134	164	PU89	198	PV313
	97	PT385	131	PU139	165	PU96	199	PV316
	98	PT387	132	PU142	166	PV107	200	PV323

	201	PV327	235	PV663	269	PW344	303	PW50
	202	PV330	236	PV679	270	PW345	304	PW503
	203	PV339	237	PV70	271	PW356	305	PW504
	204	PV343	238	PV700	272	PW359	306	PW508
5	205	PV347	239	PV715	273	PW369	307	PW524
	206	PV35	240	PV72	274	PW370	308	PW528
	207	PV371	241	PV721	275	PW378	309	PW540
	208	PV383	242	PV725	276	PW381	310	PW567
	209	PV390	243	PW102	277	PW394	311	PW587
10	210	PV398	244	PW11	278	PW398	312	PW588
	211	PV439	245	PW114	279	PW4	313	PW60
	212	PV45	246	PW120	280	PW403	314	PW66
	213	PV472	247	PW123	281	PW410	315	PW73
	214	PV475	248	PW159	282	PW417	316	PW75
15	215	PV510	249	PW170	283	PW418	317	PW95
	216	PV511	250	PW186	284	PW422	318	PX100
	217	PV512	251	PW192	285	PW429	319	PX103
	218	PV53	252	PW195	286	PW430	320	PX115
	219	PV534	253	PW214	287	PW435	321	PX125
20	220	PV535	254	PW245	288	PW437	322	PX129
	221	PV548	255	PW26	289	PW445	323	PX135
	222	PV549	256	PW267	290	PW447	324	PX146
	223	PV560	257	PW269	291	PW448	325	PX151
	224	PV58	258	PW27	292	PW452	326	PX155
25	225	PV581	259	PW271	293	PW453	327	PX166
	226	PV585	260	PW288	294	PW459	328	PX169
	227	PV59	261	PW3	295	PW460	329	PX202
	228	PV6	262	PW303	296	PW463	330	PX207
	229	PV623	263	PW311	297	PW471	331	PX223
30	230	PV635	264	PW320	298	PW475	332	PX225
	231	PV64	265	PW328	299	PW482	333	PX51
	232	PV640	266	PW335	300	PW491	334	PX54
	233	PV65	267	PW337	301	PW496	335	PX60
	234	PV662	268	PW341	302	PW498	336	PX73

	337	PX75	371	PZ362	405	QB205	439	QB311
	338	PX94	372	PZ388	406	QB208	440	QB32
	339	PY10	373	Q13	407	QB211	441	QB326
	340	PY133	374	Q153	408	QB212	442	QB344
5	341	PY156	375	Q172	409	QB214	443	QB360
	342	PY16	376	Q303	410	QB216	444	QB370
	343	PY184	377	Q513	411	QB217	445	QB375
	344	PY187	378	Q66	412	QB22	446	QB379
	345	PY195	379	Q691	413	QB221	447	QB389
10	346	PY202	380	Q719	414	QB232	448	QB39
	347	PY215	381	Q725	415	QB235	449	QB393
	348	PY220	382	QA133	416	QB24	450	QB395
	349	PY239	383	QA136	417	QB241	451	QB397
	350	PY251	384	QB10	418	QB242	452	QB401
15	351	PY254	385	QB120	419	QB245	453	QB405
	352	PY256	386	QB122	420	QB246	454	QB44
	353	PY260	387	QB131	421	QB25	455	QB56
	354	PY27	388	QB132	422	QB251	456	QC109
	355	PY34	389	QB135	423	QB252	457	QC113
20	356	PY38	390	QB136	424	QB254	458	QC12
	357	PY39	391	QB146	425	QB257	459	QC126
	358	PY40	392	QB149	426	QB259	460	QC133
	359	PY46	393	QB152	427	QB26	461	QC146
	360	PY54	394	QB153	428	QB264	462	QC147
25	361	PY7	395	QB164	429	QB271	463	QC152
	362	PY9	396	QB165	430	QB280	464	QC156
	363	PY97	397	QB184	431	QB282	465	QC16
	364	PZ181	398	QB188	432	QB286	466	QC183
	365	PZ243	399	QB196	433	QB287	467	QC190
30	366	PZ300	400	QB199	434	QB289	468	QC199
	367	PZ311	401	QB2	435	QB299	469	QC215
	368	PZ313	402	QB20	436	QB300	470	QC221
	369	PZ331	403	QB200	437	QB301	471	QC226
	370	PZ355	404	QB203	438	QB307	472	QC228

	473	QC229	507	QC49	541	QD201	575	QF114
	474	QC243	508	QC496	542	QD210	576	QF116
	475	QC262	509	QC502	543	QD229	577	QF118
	476	QC265	510	QC506	544	QD242	578	QF121
5	477	QC280	511	QC51	545	QD251	579	QF122
	478	QC284	512	QC525	546	QD253	580	QF132
	479	QC297	513	QC534	547	QD275	581	QF139
	480	QC31	514	QC55	548	QD279	582	QF142
	481	QC333	515	QC556	549	QD285	583	QF147
10	482	QC337	516	QC575	550	QD286	584	QF151
	483	QC339	517	QC578	551	QD302	585	QF153
	484	QC365	518	QC584	552	QD310	586	QF16
	485	QC368	519	QC587	553	QD327	587	QF160
	486	QC380	520	QC59	554	QD328	588	QF161
15	487	QC384	521	QC61	555	QD351	589	QF167
	488	QC386	522	QC611	556	QD388	590	QF17
	489	QC416	523	QC613	557	QD402	591	QF170
	490	QC42	524	QC617	558	QD407	592	QF175
	491	QC432	525	QC63	559	QD421	593	QF199
20	492	QC434	526	QC632	560	QD454	594	QF2
	493	QC436	527	QC638	561	QD465	595	QF220
	494	QC438	528	QC646	562	QD491	596	QF224
	495	QC439	529	QC664	563	QD518	597	QF23
	496	QC443	530	QC668	564	QD89	598	QF233
25	497	QC452	531	QC671	565	QD97	599	QF241
	498	QC458	532	QC687	566	QE193	600	QF248
	499	QC462	533	QC690	567	QE272	601	QF259
	500	QC466	534	QC698	568	QE313	602	QF266
	501	QC467	535	QC708	569	QE357	603	QF276
30	502	QC478	536	QC84	570	QE424	604	QF278
	503	QC483	537	QD103	571	QF101	605	QF282
	504	QC485	538	QD111	572	QF103	606	QF286
	505	QC487	539	QD151	573	QF109	607	QF298
	506	QC488	540	QD159	574	QF110	608	QF303

	609	QF308	643	QF476	677	QF707	711	QG473
	610	QF317	644	QF497	678	QF714	712	QG492
	611	QF319	645	QF507	679	QF75	713	QG531
	612	QF320	646	QF511	680	QF76	714	QG537
5	613	QF327	647	QF513	681	QF93	715	QG542
	614	QF328	648	QF519	682	QF99	716	QG548
	615	QF331	649	QF526	683	QG107	717	QG570
	616	QF338	650	QF53	684	QG127	718	QG571
	617	QF35	651	QF530	685	QG137	719	QG576
10	618	QF359	652	QF539	686	QG170	720	QG577
	619	QF362	653	QF541	687	QG171	721	QG586
	620	QF363	654	QF542	688	QG175	722	QG591
	621	QF366	655	QF556	689	QG185	723	QG593
	622	QF373	656	QF559	690	QG325	724	QG596
15	623	QF375	657	QF56	691	QG342	725	QG619
	624	QF377	658	QF575	692	QG357	726	QG643
	625	QF383	659	QF582	693	QG361	727	QH160
	626	QF385	660	QF6	694	QG373	728	QH184
	627	QF388	661	QF619	695	QG376	729	QH209
20	628	QF393	662	QF620	696	QG378	730	QH211
	629	QF400	663	QF625	697	QG383	731	QH250
	630	QF401	664	QF631	698	QG389	732	QH30
	631	QF404	665	QF636	699	QG398	733	QH324
	632	QF43	666	QF644	700	QG428	734	QH417
25	633	QF442	667	QF65	701	QG433	735	QH48
	634	QF453	668	QF657	702	QG437	736	QH64
	635	QF454	669	QF662	703	QG443	737	QL104
	636	QF455	670	QF663	704	QG449	738	QL109
	637	QF459	671	QF675	705	QG459	739	QL118
30	638	QF46	672	QF679	706	QG465	740	QL125
	639	QF463	673	QF691	707	QG467	741	QL128
	640	QF464	674	QF696	708	QG469	742	QL129
	641	QF467	675	QF703	709	QG470	743	QL130
	642	QF475	676	QF706	710	QG472	744	QL131

	745	QL14	779	QO16	813	QS28	847	QU435
	746	QL16	780	QO164	814	QS39	848	QU449
	747	QL18	781	QO167	815	QS47	849	QU456
	748	QL31	782	QO169	816	QS82	850	QU459
5	749	QL33	783	QO17	817	QS85	851	QU475
	750	QL37	784	QO177	818	QT4	852	QU477
	751	QL4	785	QO203	819	QT6	853	QU483
	752	QL43	786	QO204	820	QU108	854	QU487
	753	QL54	787	QO206	821	QU156	855	QU499
10	754	QL80	788	QO37	822	QU159	856	QU512
	755	QL84	789	QO49	823	QU192	857	QU529
	756	QL98	790	QO75	824	QU210	858	QU532
	757	QM10	791	QO86	825	QU211	859	QU541
	758	QM13	792	QO91	826	QU218	860	QU542
15	759	QM20	793	QR10	827	QU225	861	QU549
	760	QM22	794	QR29	828	QU228	862	QU552
	761	QM23	795	QR40	829	QU234	863	QU567
	762	QM24	796	QR82	830	QU235	864	QU71
	763	QM34	797	QR91	831	QU243	865	QU97
20	764	QM39	798	QS120	832	QU260	866	QU98
	765	QM42	799	QS124	833	QU262	867	QV229
	766	QM54	800	QS13	834	QU298	868	QV235
	767	QM59	801	QS135	835	QU300	869	QV245
	768	QM77	802	QS14	836	QU303	870	QV257
25	769	QM89	803	QS140	837	QU307	871	QV289
	770	QN32	804	QS15	838	QU330	872	QV299
	771	QN7	805	QS153	839	QU332	873	QV306
	772	QO101	806	QS157	840	QU335	874	QV320
	773	QO111	807	QS16	841	QU348	875	QV326
30	774	QO115	808	QS160	842	QU355	876	QV327
	775	QO120	809	QS162	843	QU386	877	QV331
	776	QO140	810	QS164	844	QU398	878	QV349
	777	QO143	811	QS171	845	QU418	879	QV363
	778	QO157	812	QS20	846	QU420	880	QV364

	881	QV378	915	QY1261	949	QY1496	983	QY26
	882	QV391	916	QY1263	950	QY1497	984	QY261
	883	QV521	917	QY1268	951	QY15	985	QY266
	884	QV530	918	QY1271	952	QY1515	986	QY269
5	885	QV531	919	QY1285	953	QY1517	987	QY271
	886	QV538	920	QY1288	954	QY1555	988	QY277
	887	QV549	921	QY129	955	QY1560	989	QY295
	888	QX228	922	QY1299	956	QY1561	990	QY3
	889	QX233	923	QY1306	957	QY1570	991	QY318
10	890	QX264	924	QY1309	958	QY1586	992	QY331
	891	QX312	925	QY132	959	QY1593	993	QY338
	892	QX317	926	QY1327	960	QY1597	994	QY349
	893	QX338	927	QY1339	961	QY1608	995	QY356
	894	QY100	928	QY1342	962	QY1609	996	QY359
15	895	QY1013	929	QY1344	963	QY1642	997	QY361
	896	QY1042	930	QY1345	964	QY1645	998	QY385
	897	QY1065	931	QY1346	965	QY1649	999	QY401
	898	QY1068	932	QY1349	966	QY1660	1000	QY426
	899	QY1073	933	QY1352	967	QY1662	1001	QY441
20	900	QY1075	934	QY1358	968	QY1681	1002	QY442
	901	QY11	935	QY1361	969	QY1720	1003	QY444
	902	QY1102	936	QY1369	970	QY1748	1004	QY448
	903	QY1103	937	QY1376	971	QY1750	1005	QY45
	904	QY1108	938	QY1379	972	QY1753	1006	QY450
25	905	QY1141	939	QY138	973	QY1754	1007	QY458
	906	QY1175	940	QY1383	974	QY1755	1008	QY471
	907	QY1180	941	QY1388	975	QY1756	1009	QY478
	908	QY12	942	QY1394	976	QY1775	1010	QY502
	909	QY1209	943	QY1418	977	QY1781	1011	QY51
30	910	QY1215	944	QY1437	978	QY189	1012	QY536
	911	QY1221	945	QY1445	979	QY214	1013	QY550
	912	QY1224	946	QY1462	980	QY220	1014	QY562
	913	QY1256	947	QY1488	981	QY247	1015	QY566
	914	QY1259	948	QY1495	982	QY257	1016	QY571

	1017	QY593	1051	QZ452	1085	RB448	1119	RB806
	1018	QY623	1052	QZ466	1086	RB485	1120	RB81
	1019	QY644	1053	QZ484	1087	RB497	1121	RB810
	1020	QY704	1054	QZ492	1088	RB513	1122	RB819
5	1021	QY720	1055	QZ498	1089	RB535	1123	RB822
	1022	QY722	1056	RA1018	1090	RB540	1124	RB98
	1023	QY740	1057	RA1121	1091	RB541	1125	RC11
	1024	QY742	1058	RA138	1092	RB544	1126	RC14
	1025	QY746	1059	RA281	1093	RB580	1127	RC21
10	1026	QY757	1060	RA475	1094	RB619	1128	RC29
	1027	QY769	1061	RA562	1095	RB623	1129	RC3
	1028	QY798	1062	RA574	1096	RB627	1130	RC37
	1029	QY801	1063	RA618	1097	RB630	1131	RC57
	1030	QY812	1064	RA726	1098	RB649	1132	RC58
15	1031	QY823	1065	RA885	1099	RB66	1133	RC60
	1032	QY824	1066	RA892	1100	RB666	1134	RC65
	1033	QY833	1067	RA900	1101	RB668	1135	RC7
	1034	QY835	1068	RA905	1102	RB673	1136	RC76
	1035	QY856	1069	RB126	1103	RB674	1137	RD1025
20	1036	QY859	1070	RB160	1104	RB688	1138	RD1027
	1037	QY863	1071	RB164	1105	RB693	1139	RD103
	1038	QY87	1072	RB198	1106	RB714	1140	RD1030
	1039	QY880	1073	RB202	1107	RB727	1141	RD1039
	1040	QY884	1074	RB206	1108	RB738	1142	RD1046
25	1041	QY89	1075	RB218	1109	RB749	1143	RD1049
	1042	QY99	1076	RB231	1110	RB758	1144	RD1054
	1043	QZ118	1077	RB312	1111	RB771	1145	RD1058
	1044	QZ127	1078	RB313	1112	RB773	1146	RD1059
	1045	QZ159	1079	RB342	1113	RB778	1147	RD1068
30	1046	QZ284	1080	RB382	1114	RB788	1148	RD1073
	1047	QZ290	1081	RB40	1115	RB789	1149	RD1094
	1048	QZ311	1082	RB409	1116	RB791	1150	RD1101
	1049	QZ382	1083	RB419	1117	RB792	1151	RD1102
	1050	QZ422	1084	RB422	1118	RB80	1152	RD1109

	1153	RD1111	1187	RD542	1221	RD925	1255	RG184
	1154	RD1124	1188	RD567	1222	RD942	1256	RG199
	1155	RD1131	1189	RD569	1223	RD946	1257	RG200
	1156	RD1141	1190	RD59	1224	RD954	1258	RG211
5	1157	RD1143	1191	RD592	1225	RD959	1259	RG219
	1158	RD1147	1192	RD610	1226	RD960	1260	RG241
	1159	RD1156	1193	RD616	1227	RD962	1261	RG246
	1160	RD1158	1194	RD62	1228	RD966	1262	RG248
	1161	RD1168	1195	RD649	1229	RD969	1263	RG272
10	1162	RD1179	1196	RD652	1230	RD989	1264	RG278
	1163	RD1195	1197	RD67	1231	RD996	1265	RG287
	1164	RD187	1198	RD680	1232	RD997	1266	RG296
	1165	RD194	1199	RD76	1233	RE127	1267	RG299
	1166	RD207	1200	RD775	1234	RE133	1268	RG315
15	1167	RD210	1201	RD778	1235	RE15	1269	RG325
	1168	RD214	1202	RD786	1236	RE219	1270	RG33
	1169	RD229	1203	RD788	1237	RE257	1271	RG333
	1170	RD232	1204	RD792	1238	RE326	1272	RG342
	1171	RD252	1205	RD798	1239	RE345	1273	RG348
20	1172	RD263	1206	RD8	1240	RE365	1274	RG352
	1173	RD309	1207	RD807	1241	RE72	1275	RG353
	1174	RD310	1208	RD810	1242	RF282	1276	RG367
	1175	RD312	1209	RD811	1243	RF439	1277	RG390
	1176	RD392	1210	RD825	1244	RF476	1278	RG407
25	1177	RD432	1211	RD826	1245	RF499	1279	RG409
	1178	RD435	1212	RD852	1246	RF84	1280	RG419
	1179	RD440	1213	RD853	1247	RG105	1281	RG445
	1180	RD456	1214	RD863	1248	RG113	1282	RG447
	1181	RD47	1215	RD870	1249	RG133	1283	RG452
30	1182	RD5	1216	RD876	1250	RG137	1284	RG453
	1183	RD517	1217	RD902	1251	RG145	1285	RG473
	1184	RD52	1218	RD913	1252	RG158	1286	RG48
	1185	RD530	1219	RD917	1253	RG177	1287	RG481
	1186	RD539	1220	RD918	1254	RG178	1288	RG482

	1289	RG494	1323	RI130	1357	RJ497	1391	RJ897
	1290	RG522	1324	RI21	1358	RJ499	1392	RJ898
	1291	RG528	1325	RI231	1359	RJ504	1393	RJ900
	1292	RG531	1326	RI91	1360	RJ507	1394	RJ903
5	1293	RG533	1327	RJ118	1361	RJ520	1395	RJ925
	1294	RG539	1328	RJ137	1362	RJ525	1396	RJ95
	1295	RG555	1329	RJ139	1363	RJ533	1397	RJ952
	1296	RG563	1330	RJ150	1364	RJ545	1398	RJ965
	1297	RG571	1331	RJ170	1365	RJ552	1399	RK100
10	1298	RG575	1332	RJ187	1366	RJ601	1400	RK115
	1299	RG583	1333	RJ214	1367	RJ652	1401	RK137
	1300	RG590	1334	RJ216	1368	RJ653	1402	RK144
	1301	RG593	1335	RJ223	1369	RJ656	1403	RK170
	1302	RG604	1336	RJ224	1370	RJ7	1404	RK211
15	1303	RG615	1337	RJ23	1371	RJ713	1405	RK216
	1304	RG631	1338	RJ243	1372	RJ719	1406	RK23
	1305	RG633	1339	RJ286	1373	RJ724	1407	RK253
	1306	RG636	1340	RJ288	1374	RJ727	1408	RK255
	1307	RG64	1341	RJ338	1375	RJ731	1409	RK260
20	1308	RG652	1342	RJ348	1376	RJ742	1410	RK265
	1309	RG656	1343	RJ353	1377	RJ749	1411	RK28
	1310	RG661	1344	RJ359	1378	RJ777	1412	RK41
	1311	RG663	1345	RJ361	1379	RJ779	1413	RK47
	1312	RG671	1346	RJ384	1380	RJ781	1414	RK59
25	1313	RH14	1347	RJ4	1381	RJ792	1415	RK65
	1314	RH17	1348	RJ402	1382	RJ8	1416	RK80
	1315	RH20	1349	RJ405	1383	RJ813	1417	RL106
	1316	RH22	1350	RJ431	1384	RJ828	1418	RL121
	1317	RH26	1351	RJ455	1385	RJ85	1419	RL122
30	1318	RH31	1352	RJ462	1386	RJ859	1420	RL128
	1319	RH41	1353	RJ465	1387	RJ870	1421	RL146
	1320	RH445	1354	RJ471	1388	RJ874	1422	RL15
	1321	RH510	1355	RJ482	1389	RJ890	1423	RL151
	1322	RI10	1356	RJ493	1390	RJ891	1424	RL169

	1425	RL188	1459	RL862	1493	RT1	1527	RU198
	1426	RL19	1460	RL87	1494	RT104	1528	RU199
	1427	RL245	1461	RL884	1495	RT11	1529	RU204
	1428	RL266	1462	RL885	1496	RT113	1530	RU220
5	1429	RL295	1463	RL886	1497	RT12	1531	RU233
	1430	RL310	1464	RL905	1498	RT120	1532	RU244
	1431	RL334	1465	RL957	1499	RT138	1533	RU255
	1432	RL336	1466	RL967	1500	RT15	1534	RU286
	1433	RL341	1467	RL969	1501	RT16	1535	RU288
10	1434	RL344	1468	RL979	1502	RT28	1536	RU292
	1435	RL356	1469	RM19	1503	RT34	1537	RU294
	1436	RL359	1470	RM26	1504	RT40	1538	RU327
	1437	RL360	1471	RN14	1505	RT42	1539	RU330
	1438	RL379	1472	RN17	1506	RT63	1540	RU333
15	1439	RL397	1473	RN43	1507	RT69	1541	RU355
	1440	RL455	1474	RN46	1508	RT70	1542	RU375
	1441	RL465	1475	RN55	1509	RT85	1543	RU388
	1442	RL487	1476	RN65	1510	RT88	1544	RU391
	1443	RL498	1477	RN75	1511	RT89	1545	RU50
20	1444	RL52	1478	RN81	1512	RT96	1546	RU71
	1445	RL565	1479	RN82	1513	RU11	1547	RU80
	1446	RL579	1480	RN85	1514	RU12	1548	RV106
	1447	RL606	1481	RP123	1515	RU120	1549	RV122
	1448	RL645	1482	RP146	1516	RU13	1550	RV144
25	1449	RL655	1483	RP161	1517	RU135	1551	RV15
	1450	RL693	1484	RP33	1518	RU14	1552	RV175
	1451	RL718	1485	RP34	1519	RU140	1553	RV21
	1452	RL721	1486	RP57	1520	RU146	1554	RV228
	1453	RL743	1487	RP81	1521	RU147	1555	RV239
30	1454	RL749	1488	RP87	1522	RU15	1556	RV247
	1455	RL808	1489	RQ15	1523	RU157	1557	RV252
	1456	RL83	1490	RR19	1524	RU172	1558	RV263
	1457	RL832	1491	RR20	1525	RU179	1559	RV271
	1458	RL840	1492	RS2	1526	RU182	1560	RV296

	1561	RV298	1595	RV805	1629	RX205	1663	RX536
	1562	RV305	1596	RV880	1630	RX209	1664	RX538
	1563	RV310	1597	RV9	1631	RX213	1665	RX554
	1564	RV319	1598	RW109	1632	RX22	1666	RX66
5	1565	RV422	1599	RW123	1633	RX245	1667	RX90
	1566	RV465	1600	RW193	1634	RX249	1668	RY140
	1567	RV476	1601	RW197	1635	RX252	1669	RY152
	1568	RV48	1602	RW253	1636	RX255	1670	RY193
	1569	RV49	1603	RW257	1637	RX263	1671	RY24
10	1570	RV490	1604	RW278	1638	RX282	1672	RY25
	1571	RV498	1605	RW290	1639	RX294	1673	RY295
	1572	RV504	1606	RW302	1640	RX314	1674	RY297
	1573	RV524	1607	RW344	1641	RX322	1675	RY307
	1574	RV555	1608	RW38	1642	RX326	1676	RY328
15	1575	RV576	1609	RW382	1643	RX332	1677	RY35
	1576	RV579	1610	RW440	1644	RX363	1678	RY385
	1577	RV598	1611	RW447	1645	RX373	1679	RY394
	1578	RV612	1612	RW456	1646	RX375	1680	RY418
	1579	RV627	1613	RW464	1647	RX392	1681	RY429
20	1580	RV634	1614	RW480	1648	RX40	1682	RY438
	1581	RV635	1615	RW488	1649	RX417	1683	RY450
	1582	RV637	1616	RW51	1650	RX419	1684	RY465
	1583	RV643	1617	RW513	1651	RX431	1685	RY47
	1584	RV656	1618	RW520	1652	RX443	1686	RY471
25	1585	RV681	1619	RW58	1653	RX466	1687	RY496
	1586	RV705	1620	RW661	1654	RX478	1688	RY535
	1587	RV707	1621	RW693	1655	RX479	1689	RY551
	1588	RV72	1622	RW84	1656	RX487	1690	RY580
	1589	RV724	1623	RX127	1657	RX491	1691	RY674
30	1590	RV759	1624	RX166	1658	RX499	1692	RY675
	1591	RV778	1625	RX176	1659	RX510	1693	RY681
	1592	RV796	1626	RX18	1660	RX527	1694	RY80
	1593	RV801	1627	RX185	1661	RX528	1695	RY81
	1594	RV803	1628	RX192	1662	RX534	1696	RZ126

	1697	RZ129	1731	SA139	1765	SB15	1799	SC265
	1698	RZ142	1732	SA140	1766	SB171	1800	SC271
	1699	RZ16	1733	SA323	1767	SB172	1801	SC273
	1700	RZ221	1734	SA33	1768	SB20	1802	SC294
5	1701	RZ224	1735	SA331	1769	SB228	1803	SC296
	1702	RZ226	1736	SA34	1770	SB230	1804	SC298
	1703	RZ262	1737	SA361	1771	SB236	1805	SC318
	1704	RZ304	1738	SA404	1772	SB250	1806	SC341
	1705	RZ323	1739	SA481	1773	SB256	1807	SC359
10	1706	RZ361	1740	SA488	1774	SB276	1808	SC370
	1707	RZ405	1741	SA493	1775	SB280	1809	SC382
	1708	RZ409	1742	SA508	1776	SB342	1810	SC394
	1709	RZ411	1743	SA537	1777	SB36	1811	SC40
	1710	RZ425	1744	SA539	1778	SB39	1812	SC401
15	1711	RZ435	1745	SA543	1779	SB44	1813	SC404
	1712	RZ44	1746	SA569	1780	SB49	1814	SC46
	1713	RZ454	1747	SA570	1781	SB66	1815	SC58
	1714	RZ514	1748	SA576	1782	SB86	1816	SC59
	1715	RZ527	1749	SA601	1783	SC115	1817	SC88
20	1716	RZ553	1750	SA624	1784	SC117	1818	SC89
	1717	RZ568	1751	SA627	1785	SC136	1819	SD55
	1718	RZ599	1752	SA629	1786	SC144	1820	SE42
	1719	RZ610	1753	SA638	1787	SC145	1821	SE71
	1720	RZ627	1754	SA643	1788	SC163	1822	SF120
25	1721	RZ664	1755	SA649	1789	SC164	1823	SF124
	1722	RZ670	1756	SA664	1790	SC17	1824	SF125
	1723	RZ692	1757	SA679	1791	SC173	1825	SF138
	1724	RZ698	1758	SA74	1792	SC176	1826	SF146
	1725	RZ730	1759	SA79	1793	SC193	1827	SF156
30	1726	S1	1760	SB12	1794	SC199	1828	SF172
	1727	S199	1761	SB123	1795	SC209	1829	SF173
	1728	SA120	1762	SB147	1796	SC226	1830	SF180
	1729	SA122	1763	SB148	1797	SC244	1831	SF184
	1730	SA124	1764	SB149	1798	SC245	1832	SF206

	1833	SF222	1867	SF59	1901	SG352	1935	WG63
	1834	SF226	1868	SF592	1902	SG77	1936	WG67
	1835	SF240	1869	SF601	1903	T85	1937	WG75
	1836	SF245	1870	SF608	1904	V207	1938	WG76
5	1837	SF249	1871	SF624	1905	V222	1939	WG77
	1838	SF265	1872	SF626	1906	WA109	1940	WG9
	1839	SF275	1873	SF637	1907	WA118	1941	WG90
	1840	SF286	1874	SF67	1908	WA129	1942	WG93
	1841	SF292	1875	SF69	1909	WA135	1943	WG94
10	1842	SF302	1876	SF78	1910	WA15	1944	WH101
	1843	SF303	1877	SF98	1911	WA153	1945	WH110
	1844	SF307	1878	SG1	1912	WA154	1946	WH113
	1845	SF309	1879	SG122	1913	WA545	1947	WH114
	1846	SF315	1880	SG124	1914	WC73	1948	WH117
15	1847	SF339	1881	SG126	1915	WC74	1949	WH119
	1848	SF34	1882	SG127	1916	WC88	1950	WH120
	1849	SF340	1883	SG148	1917	WF2	1951	WH128
	1850	SF348	1884	SG15	1918	WF3	1952	WH129
	1851	SF371	1885	SG169	1919	WF4	1953	WH13
20	1852	SF379	1886	SG213	1920	WG14	1954	WH130
	1853	SF401	1887	SG243	1921	WG21	1955	WH133
	1854	SF429	1888	SG261	1922	WG24	1956	WH135
	1855	SF442	1889	SG262	1923	WG26	1957	WH140
	1856	SF444	1890	SG272	1924	WG30	1958	WH142
25	1857	SF445	1891	SG275	1925	WG31	1959	WH146
	1858	SF465	1892	SG281	1926	WG32	1960	WH150
	1859	SF472	1893	SG293	1927	WG34	1961	WH155
	1860	SF497	1894	SG295	1928	WG39	1962	WH16
	1861	SF499	1895	SG312	1929	WG41	1963	WH169
30	1862	SF50	1896	SG334	1930	WG44	1964	WH17
	1863	SF517	1897	SG335	1931	WG53	1965	WH170
	1864	SF553	1898	SG345	1932	WG55	1966	WH175
	1865	SF577	1899	SG347	1933	WG59	1967	WH178
	1866	SF582	1900	SG35	1934	WG62	1968	WH179

	1969	WH180	2003	WI143	2037	WJ200	2071	WL554
	1970	WH181	2004	WI144	2038	WJ202	2072	WL556
	1971	WH185	2005	WI145	2039	WJ231	2073	WL560
	1972	WH200	2006	WI150	2040	WJ233	2074	WL561
5	1973	WH204	2007	WI152	2041	WJ236	2075	WL566
	1974	WH209	2008	WI156	2042	WJ238	2076	WL567
	1975	WH211	2009	WI168	2043	WJ243	2077	WL570
	1976	WH214	2010	WI173	2044	WJ245	2078	WL580
	1977	WH216	2011	WI175	2045	WJ248	2079	WL582
10	1978	WH219	2012	WI178	2046	WJ275	2080	WL637
	1979	WH22	2013	WI18	2047	WJ289	2081	WL644
	1980	WH224	2014	WI181	2048	WJ291	2082	WL647
	1981	WH230	2015	WI232	2049	WJ295	2083	WL657
	1982	WH26	2016	WI233	2050	WJ296	2084	WL663
15	1983	WH27	2017	WI234	2051	WJ301	2085	WL664
	1984	WH3	2018	WI239	2052	WK159	2086	WL666
	1985	WH30	2019	WI243	2053	WK168	2087	Z107
	1986	WH39	2020	WI244	2054	WK172	2088	Z123
	1987	WH40	2021	WI246	2055	WK174	2089	Z132
20	1988	WH43	2022	WI248	2056	WK177	2090	Z134
	1989	WH44	2023	WI251	2057	WK178	2091	Z135
	1990	WH47	2024	WI257	2058	WK185	2092	Z139
	1991	WI1	2025	WI265	2059	WK199	2093	Z145
	1992	WI108	2026	WI266	2060	WK200	2094	Z217
25	1993	WI109	2027	WI267	2061	WK215	2095	Z218
	1994	WI114	2028	WI268	2062	WK220	2096	Z243
	1995	WI116	2029	WI270	2063	WK225	2097	Z250
	1996	WI119	2030	WI44	2064	WK228	2098	Z253
	1997	WI12	2031	WI9	2065	WK234	2099	Z254
30	1998	WI125	2032	WI96	2066	WK247	2100	Z256
	1999	WI13	2033	WJ168	2067	WL503	2101	Z260
	2000	WI131	2034	WJ176	2068	WL508	2102	Z286
	2001	WI139	2035	WJ192	2069	WL519	2103	Z287
	2002	WI142	2036	WJ193	2070	WL546	2104	Z288

	2105	Z294	2139	Z729
	2106	Z320	2140	Z738
	2107	Z327	2141	Z743
	2108	Z328	2142	Z747
5	2109	Z338	2143	Z748
	2110	Z343	2144	Z749
	2111	Z372	2145	Z750
	2112	Z391	2146	Z756
	2113	Z415	2147	Z768
10	2114	Z450	2148	Z769
	2115	Z459	2149	Z792
	2116	Z469	2150	Z805
	2117	Z480	2151	Z806
	2118	Z497	2152	Z837
15	2119	Z504	2153	Z843
	2120	Z577	2154	Z847
	2121	Z584	2155	Z852
	2122	Z590	2156	Z856
	2123	Z594	2157	Z864
20	2124	Z599	2158	Z865
	2125	Z603	2159	Z871
	2126	Z607		
	2127	Z610		
	2128	Z617		
25	2129	Z624		
	2130	Z631		
	2131	Z633		
	2132	Z654		
	2133	Z656		
30	2134	Z660		
	2135	Z666		
	2136	Z674		
	2137	Z677		
	2138	Z719		

The "Clone ID No." for a particular clone consists of one or two letters followed by a number. The letters designate the tissue source from which the sEST was isolated. Table 3 below lists the various sources which were run through applicants' signal sequence trap. Thus, the tissue source for a particular sEST sequence can be identified  
5 in Table 3 by the one and two letter designations used in the relevant "Clone ID No." in Table 2. For example, a clone designated as "PP85" would have been isolated from a human adult blood (lymphoblastic leukemia MOLT-4) library (i.e., selection "PP") as indicated in Table 3.

As used herein, "polynucleotide" includes single- and double-stranded RNAs,  
10 DNAs and RNA:DNA hybrids.

As used herein a "secreted" protein is one which, when expressed in a suitable host cell, is transported across or through a membrane, including transport as a result of signal sequences in its amino acid sequence. "Secreted" proteins include without limitation proteins secreted wholly (e.g., soluble proteins) or partially (e.g., receptors)  
15 from the cell in which they are expressed. "Secreted" proteins also include without limitation proteins which are transported across the membrane of the endoplasmic reticulum.

Fragments of the proteins of the present invention which are capable of exhibiting biological activity are also encompassed by the present invention.  
20 Fragments of the protein may be in linear form or they may be cyclized using known methods, for example, as described in H.U. Saragovi, *et al.*, Bio/Technology 10, 773-778 (1992) and in R.S. McDowell, *et al.*, J. Amer. Chem. Soc. 114, 9245-9253 (1992), both of which are incorporated herein by reference. Such fragments may be fused to carrier molecules such as immunoglobulins for many purposes, including increasing  
25 the valency of protein binding sites. For example, fragments of the protein may be fused through "linker" sequences to the Fc portion of an immunoglobulin. For a bivalent form of the protein, such a fusion could be to the Fc portion of an IgG molecule. Other immunoglobulin isotypes may also be used to generate such fusions. For example, a protein - IgM fusion would generate a decavalent form of the protein  
30 of the invention.

The present invention also provides both full-length and mature forms of the disclosed proteins. The full-length form of the such proteins is identified in the sequence listing by translation of the nucleotide sequence of each disclosed clone. The mature form(s) of such protein may be obtained by expression of the disclosed

full-length polynucleotide (preferably those deposited with ATCC) in a suitable mammalian cell or other host cell. The sequence(s) of the mature form(s) of the protein may also be determinable from the amino acid sequence of the full-length form.

5           The present invention also provides genes corresponding to the polynucleotide sequences disclosed herein. "Corresponding genes" are the regions of the genome that are transcribed to produce the mRNAs from which cDNA polynucleotide sequences are derived and may include contiguous regions of the genome necessary for the regulated expression of such genes. Corresponding genes  
10 may therefore include but are not limited to coding sequences, 5' and 3' untranslated regions, alternatively spliced exons, introns, promoters, enhancers, and silencer or suppressor elements. The corresponding genes can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include the preparation of probes or primers from the disclosed sequence information  
15 for identification and/or amplification of genes in appropriate genomic libraries or other sources of genomic materials. An "isolated gene" is a gene that has been separated from the adjacent coding sequences, if any, present in the genome of the organism from which the gene was isolated.

          The chromosomal location corresponding to the polynucleotide sequences  
20 disclosed herein may also be determined, for example by hybridizing appropriately labeled polynucleotides of the present invention to chromosomes *in situ*. It may also be possible to determine the corresponding chromosomal location for a disclosed polynucleotide by identifying significantly similar nucleotide sequences in public databases, such as expressed sequence tags (ESTs), that have already been mapped  
25 to particular chromosomal locations. For at least some of the polynucleotide sequences disclosed herein, public database sequences having at least some similarity to the polynucleotide of the present invention have been listed by database accession number. Searches using the GenBank accession numbers of these public database sequences can then be performed at an Internet site provided by the National Center  
30 for Biotechnology Information having the address [www.ncbi.nlm.nih.gov/UniGene](http://www.ncbi.nlm.nih.gov/UniGene), in order to identify "UniGene clusters" of overlapping sequences. Many of the "UniGene clusters" so identified will already have been mapped to particular chromosomal sites.

Organisms that have enhanced, reduced, or modified expression of the gene(s) corresponding to the polynucleotide sequences disclosed herein are provided. The desired change in gene expression can be achieved through the use of antisense polynucleotides or ribozymes that bind and/or cleave the mRNA transcribed from the gene (Albert and Morris, 1994, *Trends Pharmacol. Sci.* 15(7): 250-254; Lavarosky et al., 1997, *Biochem. Mol. Med.* 62(1): 11-22; and Hampel, 1998, *Prog. Nucleic Acid Res. Mol. Biol.* 58: 1-39; all of which are incorporated by reference herein). Transgenic animals that have multiple copies of the gene(s) corresponding to the polynucleotide sequences disclosed herein, preferably produced by transformation of cells with genetic constructs that are stably maintained within the transformed cells and their progeny, are provided. Transgenic animals that have modified genetic control regions that increase or reduce gene expression levels, or that change temporal or spatial patterns of gene expression, are also provided (see European Patent No. 0 649 464 B1, incorporated by reference herein). In addition, organisms are provided in which the gene(s) corresponding to the polynucleotide sequences disclosed herein have been partially or completely inactivated, through insertion of extraneous sequences into the corresponding gene(s) or through deletion of all or part of the corresponding gene(s). Partial or complete gene inactivation can be accomplished through insertion, preferably followed by imprecise excision, of transposable elements (Plasterk, 1992, *Bioessays* 14(9): 629-633; Zwaal et al., 1993, *Proc. Natl. Acad. Sci. USA* 90(16): 7431-7435; Clark et al., 1994, *Proc. Natl. Acad. Sci. USA* 91(2): 719-722; all of which are incorporated by reference herein), or through homologous recombination, preferably detected by positive/negative genetic selection strategies (Mansour et al., 1988, *Nature* 336: 348-352; U.S. Patent Nos. 5,464,764; 5,487,992; 5,627,059; 5,631,153; 5,614,396; 5,616,491; and 5,679,523; all of which are incorporated by reference herein). These organisms with altered gene expression are preferably eukaryotes and more preferably are mammals. Such organisms are useful for the development of non-human models for the study of disorders involving the corresponding gene(s), and for the development of assay systems for the identification of molecules that interact with the protein product(s) of the corresponding gene(s).

Where the protein of the present invention is membrane-bound (e.g., is a receptor), the present invention also provides for soluble forms of such protein. In such forms part or all of the intracellular and transmembrane domains of the protein

are deleted such that the protein is fully secreted from the cell in which it is expressed. The intracellular and transmembrane domains of proteins of the invention can be identified in accordance with known techniques for determination of such domains from sequence information.

5 Proteins and protein fragments of the present invention include proteins with amino acid sequence lengths that are at least 25% (more preferably at least 50%, and most preferably at least 75%) of the length of a disclosed protein and have at least 60% sequence identity (more preferably, at least 75% identity; most preferably at least 90% or 95% identity) with that disclosed protein, where sequence identity is  
10 determined by comparing the amino acid sequences of the proteins when aligned so as to maximize overlap and identity while minimizing sequence gaps. Also included in the present invention are proteins and protein fragments that contain a segment preferably comprising 8 or more (more preferably 20 or more, most preferably 30 or more) contiguous amino acids that shares at least 75% sequence identity (more  
15 preferably, at least 85% identity; most preferably at least 95% identity) with any such segment of any of the disclosed proteins.

In particular, sequence identity may be determined using WU-BLAST (Washington University BLAST) version 2.0 software, which builds upon WU-BLAST version 1.4, which in turn is based on the public domain NCBI-BLAST  
20 version 1.4 (Altschul and Gish, 1996, Local alignment statistics, Doolittle *ed.*, *Methods in Enzymology* 266: 460-480; Altschul *et al.*, 1990, Basic local alignment search tool, *Journal of Molecular Biology* 215: 403-410; Gish and States, 1993, Identification of protein coding regions by database similarity search, *Nature Genetics* 3: 266-272; Karlin and Altschul, 1993, Applications and statistics for multiple  
25 high-scoring segments in molecular sequences, *Proc. Natl. Acad. Sci. USA* 90: 5873-5877; all of which are incorporated by reference herein). WU-BLAST version 2.0 executable programs for several UNIX platforms can be downloaded from the Internet file-transfer protocol (FTP) site <ftp://blast.wustl.edu/blast/executables>. The complete suite of search programs (BLASTP, BLASTN, BLASTX, TBLASTN, and  
30 TBLASTX) is provided at that site, in addition to several support programs. WU-BLAST 2.0 is copyrighted and may not be sold or redistributed in any form or manner without the express written consent of the author; but the posted executables

may otherwise be freely used for commercial, nonprofit, or academic purposes. In all search programs in the suite -- BLASTP, BLASTN, BLASTX, TBLASTN and TBLASTX -- the gapped alignment routines are integral to the database search itself, and thus yield much better sensitivity and selectivity while producing the more easily  
5 interpreted output. Gapping can optionally be turned off in all of these programs, if desired. The default penalty (Q) for a gap of length one is Q=9 for proteins and BLASTP, and Q=10 for BLASTN, but may be changed to any integer value including zero, one through eight, nine, ten, eleven, twelve through twenty, twenty-one through fifty, fifty-one through one hundred, etc. The default per-residue penalty for extending  
10 a gap (R) is R=2 for proteins and BLASTP, and R=10 for BLASTN, but may be changed to any integer value including zero, one, two, three, four, five, six, seven, eight, nine, ten, eleven, twelve through twenty, twenty-one through fifty, fifty-one through one hundred, etc. Any combination of values for Q and R can be used in order to align sequences so as to maximize overlap and identity while minimizing  
15 sequence gaps. The default amino acid comparison matrix is BLOSUM62, but other amino acid comparison matrices such as PAM can be utilized.

Species homologues of the disclosed polynucleotides and proteins are also provided by the present invention. As used herein, a "species homologue" is a protein or polynucleotide with a different species of origin from that of a given protein  
20 or polynucleotide, but with significant sequence similarity to the given protein or polynucleotide. Preferably, polynucleotide species homologues have at least 60% sequence identity (more preferably, at least 75% identity; most preferably at least 90% identity) with the given polynucleotide, and protein species homologues have at least 30% sequence identity (more preferably, at least 45% identity; most preferably at least  
25 60% identity) with the given protein, where sequence identity is determined by comparing the nucleotide sequences of the polynucleotides or the amino acid sequences of the proteins when aligned so as to maximize overlap and identity while minimizing sequence gaps. Species homologues may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening  
30 a suitable nucleic acid source from the desired species. Preferably, species homologues are those isolated from mammalian species. Most preferably, species homologues are those isolated from certain mammalian species such as, for example,

*Pan troglodytes*, *Gorilla gorilla*, *Pongo pygmaeus*, *Hylobates concolor*, *Macaca mulatta*, *Papio papio*, *Papio hamadryas*, *Cercopithecus aethiops*, *Cebus capucinus*, *Aotus trivirgatus*, *Sanguinus oedipus*, *Microcebus murinus*, *Mus musculus*, *Rattus norvegicus*, *Cricetulus griseus*, *Felis catus*, *Mustela vison*, *Canis familiaris*, *Oryctolagus cuniculus*, *Bos taurus*, *Ovis aries*, *Sus scrofa*, and *Equus caballus*, for which genetic maps have been created allowing the identification of syntenic relationships between the genomic organization of genes in one species and the genomic organization of the related genes in another species (O'Brien and Seuánez, 1988, *Ann. Rev. Genet.* 22: 323-351; O'Brien *et al.*, 1993, *Nature Genetics* 3:103-112; Johansson *et al.*, 1995, *Genomics* 25: 682-690; Lyons *et al.*, 1997, *Nature Genetics* 15: 47-56; O'Brien *et al.*, 1997, *Trends in Genetics* 13(10): 393-399; Carver and Stubbs, 1997, *Genome Research* 7:1123-1137; all of which are incorporated by reference herein).

The invention also encompasses allelic variants of the disclosed polynucleotides or proteins; that is, naturally-occurring alternative forms of the isolated polynucleotides which also encode proteins which are identical or have significantly similar sequences to those encoded by the disclosed polynucleotides. Preferably, allelic variants have at least 60% sequence identity (more preferably, at least 75% identity; most preferably at least 90% identity) with the given polynucleotide, where sequence identity is determined by comparing the nucleotide sequences of the polynucleotides when aligned so as to maximize overlap and identity while minimizing sequence gaps. Allelic variants may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source from individuals of the appropriate species.

The invention also includes polynucleotides with sequences complementary to those of the polynucleotides disclosed herein.

The present invention also includes polynucleotides that hybridize under reduced stringency conditions, more preferably stringent conditions, and most preferably highly stringent conditions, to polynucleotides described herein. Examples of stringency conditions are shown in the table below: highly stringent conditions are those that are at least as stringent as, for example, conditions A-F; stringent conditions are at least as stringent as, for example, conditions G-L; and reduced stringency conditions are at least as stringent as, for example, conditions M-R.

	Stringency Condition	Polynucleotide Hybrid	Hybrid Length (bp) <sup>‡</sup>	Hybridization Temperature and Buffer <sup>†</sup>	Wash Temperature and Buffer <sup>†</sup>
5	A	DNA:DNA	≥ 50	65°C; 1xSSC -or- 42°C; 1xSSC, 50% formamide	65°C; 0.3xSSC
	B	DNA:DNA	<50	T <sub>B</sub> <sup>*</sup> ; 1xSSC	T <sub>B</sub> <sup>*</sup> ; 1xSSC
	C	DNA:RNA	≥ 50	67°C; 1xSSC -or- 45°C; 1xSSC, 50% formamide	67°C; 0.3xSSC
	D	DNA:RNA	<50	T <sub>D</sub> <sup>*</sup> ; 1xSSC	T <sub>D</sub> <sup>*</sup> ; 1xSSC
	E	RNA:RNA	≥ 50	70°C; 1xSSC -or- 50°C; 1xSSC, 50% formamide	70°C; 0.3xSSC
	F	RNA:RNA	<50	T <sub>F</sub> <sup>*</sup> ; 1xSSC	T <sub>F</sub> <sup>*</sup> ; 1xSSC
10	G	DNA:DNA	≥ 50	65°C; 4xSSC -or- 42°C; 4xSSC, 50% formamide	65°C; 1xSSC
	H	DNA:DNA	<50	T <sub>H</sub> <sup>*</sup> ; 4xSSC	T <sub>H</sub> <sup>*</sup> ; 4xSSC
	I	DNA:RNA	≥ 50	67°C; 4xSSC -or- 45°C; 4xSSC, 50% formamide	67°C; 1xSSC
	J	DNA:RNA	<50	T <sub>J</sub> <sup>*</sup> ; 4xSSC	T <sub>J</sub> <sup>*</sup> ; 4xSSC
	K	RNA:RNA	≥ 50	70°C; 4xSSC -or- 50°C; 4xSSC, 50% formamide	67°C; 1xSSC
	L	RNA:RNA	<50	T <sub>L</sub> <sup>*</sup> ; 2xSSC	T <sub>L</sub> <sup>*</sup> ; 2xSSC
15	M	DNA:DNA	≥ 50	50°C; 4xSSC -or- 40°C; 6xSSC, 50% formamide	50°C; 2xSSC
	N	DNA:DNA	<50	T <sub>N</sub> <sup>*</sup> ; 6xSSC	T <sub>N</sub> <sup>*</sup> ; 6xSSC
	O	DNA:RNA	≥ 50	55°C; 4xSSC -or- 42°C; 6xSSC, 50% formamide	55°C; 2xSSC
	P	DNA:RNA	<50	T <sub>P</sub> <sup>*</sup> ; 6xSSC	T <sub>P</sub> <sup>*</sup> ; 6xSSC
	Q	RNA:RNA	≥ 50	60°C; 4xSSC -or- 45°C; 6xSSC, 50% formamide	60°C; 2xSSC
	R	RNA:RNA	<50	T <sub>R</sub> <sup>*</sup> ; 4xSSC	T <sub>R</sub> <sup>*</sup> ; 4xSSC

<sup>‡</sup>: The hybrid length is that anticipated for the hybridized region(s) of the hybridizing polynucleotides. When hybridizing a polynucleotide to a target polynucleotide of unknown sequence, the hybrid length is assumed to be that of the hybridizing polynucleotide. When polynucleotides of known sequence are hybridized, the hybrid length can be determined by aligning the sequences of the polynucleotides and identifying the region or regions of optimal sequence complementarity.

<sup>†</sup>: SSPE (1xSSPE is 0.15M NaCl, 10mM NaH<sub>2</sub>PO<sub>4</sub>, and 1.25mM EDTA, pH 7.4) can be substituted for SSC (1xSSC is 0.15M NaCl and 15mM sodium citrate) in the hybridization and wash buffers; washes are performed for 15 minutes after hybridization is complete.

<sup>\*</sup>T<sub>B</sub> - T<sub>R</sub>: The hybridization temperature for hybrids anticipated to be less than 50 base pairs in length should be 5-10°C less than the melting temperature (T<sub>m</sub>) of the hybrid, where T<sub>m</sub> is determined according to the following equations. For hybrids less than 18 base pairs in length, T<sub>m</sub>(°C) = 2(# of A + T bases) + 4(# of G + C bases). For hybrids between 18 and 49 base

pairs in length,  $T_m(^{\circ}\text{C}) = 81.5 + 16.6(\log_{10}[\text{Na}^+]) + 0.41(\%G+C) - (600/N)$ , where N is the number of bases in the hybrid, and  $[\text{Na}^+]$  is the concentration of sodium ions in the hybridization buffer ( $[\text{Na}^+]$  for 1xSSC = 0.165 M).

- 5 Additional examples of stringency conditions for polynucleotide hybridization are provided in Sambrook, J., E.F. Fritsch, and T. Maniatis, 1989, *Molecular Cloning: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, chapters 9 and 11, and *Current Protocols in Molecular Biology*, 1995, F.M. Ausubel et al., eds., John Wiley & Sons, Inc., sections 2.10 and 6.3-6.4, 10 incorporated herein by reference.

- Preferably, each such hybridizing polynucleotide has a length that is at least 25% (more preferably at least 50%, and most preferably at least 75%) of the length of the polynucleotide of the present invention to which it hybridizes, and has at least 60% sequence identity (more preferably, at least 75% identity; most preferably at least 15 90% or 95% identity) with the polynucleotide of the present invention to which it hybridizes, where sequence identity is determined by comparing the sequences of the hybridizing polynucleotides when aligned so as to maximize overlap and identity while minimizing sequence gaps.

- The isolated polynucleotide of the invention may contain sequences at its 5' 20 and/or 3' end that are derived from linker, polylinker, or multiple cloning site sequences commonly found in vectors such as the pMT2 or pED expression vectors (see below). For example, sequences such as SEQ ID NO:2160, SEQ ID NO:2161, or SEQ ID NO:2162 may be found at the 5' end of an isolated polynucleotide of the invention, or the complement of any of these sequences may be found at its 3' end. 25 Similarly, sequences such as SEQ ID NO:2163, SEQ ID NO:2164, or SEQ ID NO:2165 may be found at the 3' end of an isolated polynucleotide of the invention, or the complement of any of these sequences may be found at its 5' end. In addition, variants of these linker sequences may be present in isolated polynucleotides of the invention, which linker variants vary from SEQ ID NO:2160 through SEQ ID NO:2165 30 by the alteration, insertion, or deletion of one or more nucleotides. Therefore, a preferred embodiment of the invention comprises the nucleotide sequence of any of the isolated polynucleotides disclosed herein, beginning at nucleotide 25 and ending at nucleotide (N-25) of the SEQ ID NO for that polynucleotide, where N represents the total number of nucleotides in the sequence. As a specific example, a preferred 35 embodiment of the invention comprises the nucleotide sequence of SEQ ID NO:1

from nucleotide 25 to nucleotide 180, where the total number of nucleotides (N) in SEQ ID NO:1 is 205, and N-25 equals 180. More preferably, a polynucleotide of the invention comprises the nucleotide sequence of any of the isolated polynucleotides disclosed herein, beginning at nucleotide 30 and ending at nucleotide (N-30) of the  
5 SEQ ID NO for that polynucleotide. Most preferably, a polynucleotide of the invention comprises the nucleotide sequence of any of the isolated polynucleotides disclosed herein, beginning at nucleotide 35 and ending at nucleotide (N-35) of the SEQ ID NO for that polynucleotide.

The isolated polynucleotide of the invention may be operably linked to an  
10 expression control sequence such as the pMT2 or pED expression vectors disclosed in Kaufman *et al.*, Nucleic Acids Res. 19, 4485-4490 (1991), in order to produce the protein recombinantly. Many suitable expression control sequences are known in the art. General methods of expressing recombinant proteins are also known and are exemplified in R. Kaufman, Methods in Enzymology 185, 537-566 (1990). As defined  
15 herein "operably linked" means that the isolated polynucleotide of the invention and an expression control sequence are situated within a vector or cell in such a way that the protein is expressed by a host cell which has been transformed (transfected) with the ligated polynucleotide/expression control sequence.

A number of types of cells may act as suitable host cells for expression of the  
20 protein. Mammalian host cells include, for example, monkey COS cells, Chinese Hamster Ovary (CHO) cells, human kidney 293 cells, human epidermal A431 cells, human Colo205 cells, 3T3 cells, CV-1 cells, other transformed primate cell lines, normal diploid cells, cell strains derived from in vitro culture of primary tissue, primary explants, HeLa cells, mouse L cells, BHK, HL-60, U937, HaK or Jurkat cells.

Alternatively, it may be possible to produce the protein in lower eukaryotes  
25 such as yeast or in prokaryotes such as bacteria. Potentially suitable yeast strains include *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe*, *Kluyveromyces* strains, *Candida*, or any yeast strain capable of expressing heterologous proteins. Potentially suitable bacterial strains include *Escherichia coli*, *Bacillus subtilis*, *Salmonella*  
30 *typhimurium*, or any bacterial strain capable of expressing heterologous proteins. If the protein is made in yeast or bacteria, it may be necessary to modify the protein produced therein, for example by phosphorylation or glycosylation of the appropriate sites, in order to obtain the functional protein. Such covalent attachments may be accomplished using known chemical or enzymatic methods.

The protein may also be produced by operably linking the isolated polynucleotide of the invention to suitable control sequences in one or more insect expression vectors, and employing an insect expression system. Materials and methods for baculovirus/insect cell expression systems are commercially available in kit form from, *e.g.*, Invitrogen, San Diego, California, U.S.A. (the MaxBac® kit), and such methods are well known in the art, as described in Summers and Smith, Texas Agricultural Experiment Station Bulletin No. 1555 (1987), incorporated herein by reference. As used herein, an insect cell capable of expressing a polynucleotide of the present invention is "transformed."

10       The protein of the invention may be prepared by culturing transformed host cells under culture conditions suitable to express the recombinant protein. The resulting expressed protein may then be purified from such culture (*i.e.*, from culture medium or cell extracts) using known purification processes, such as gel filtration and ion exchange chromatography. The purification of the protein may also include an affinity column containing agents which will bind to the protein; one or more column steps over such affinity resins as concanavalin A-agarose, heparin-toyopearl® or Cibacrom blue 3GA Sepharose®; one or more steps involving hydrophobic interaction chromatography using such resins as phenyl ether, butyl ether, or propyl ether; or immunoaffinity chromatography.

20       Alternatively, the protein of the invention may also be expressed in a form which will facilitate purification. For example, it may be expressed as a fusion protein, such as those of maltose binding protein (MBP), glutathione-S-transferase (GST) or thioredoxin (TRX). Kits for expression and purification of such fusion proteins are commercially available from New England BioLabs (Beverly, MA), Pharmacia (Piscataway, NJ) and Invitrogen Corporation (Carlsbad, CA), respectively. The protein can also be tagged with an epitope and subsequently purified by using a specific antibody directed to such epitope. One such epitope ("Flag") is commercially available from the Eastman Kodak Company (New Haven, CT).

30       Finally, one or more reverse-phase high performance liquid chromatography (RP-HPLC) steps employing hydrophobic RP-HPLC media, *e.g.*, silica gel having pendant methyl or other aliphatic groups, can be employed to further purify the protein. Some or all of the foregoing purification steps, in various combinations, can also be employed to provide a substantially homogeneous isolated recombinant

protein. The protein thus purified is substantially free of other mammalian proteins and is defined in accordance with the present invention as an "isolated protein."

The protein of the invention may also be expressed as a product of transgenic animals, e.g., as a component of the milk of transgenic cows, goats, pigs, or sheep  
5 which are characterized by somatic or germ cells containing a nucleotide sequence encoding the protein.

The protein may also be produced by known conventional chemical synthesis. Methods for constructing the proteins of the present invention by synthetic means are known to those skilled in the art. The synthetically-constructed protein sequences,  
10 by virtue of sharing primary, secondary or tertiary structural and/or conformational characteristics with proteins may possess biological properties in common therewith, including protein activity. Thus, they may be employed as biologically active or immunological substitutes for natural, purified proteins in screening of therapeutic compounds and in immunological processes for the development of antibodies.

15 The proteins provided herein also include proteins characterized by amino acid sequences similar to those of purified proteins but into which modification are naturally provided or deliberately engineered. For example, modifications in the peptide or DNA sequences can be made by those skilled in the art using known techniques. Modifications of interest in the protein sequences may include the  
20 alteration, substitution, replacement, insertion or deletion of a selected amino acid residue in the coding sequence. For example, one or more of the cysteine residues may be deleted or replaced with another amino acid to alter the conformation of the molecule. Techniques for such alteration, substitution, replacement, insertion or deletion are well known to those skilled in the art (see, e.g., U.S. Patent No.  
25 4,518,584). Preferably, such alteration, substitution, replacement, insertion or deletion retains the desired activity of the protein.

Other fragments and derivatives of the sequences of proteins which would be expected to retain protein activity in whole or in part and may thus be useful for screening or other immunological methodologies may also be easily made by those  
30 skilled in the art given the disclosures herein. Such modifications are believed to be encompassed by the present invention.

### USES AND BIOLOGICAL ACTIVITY

The polynucleotides and proteins of the present invention are expected to exhibit one or more of the uses or biological activities (including those associated with assays cited herein) identified below. Uses or activities described for proteins of the present invention may be provided by administration or use of such proteins or by administration or use of polynucleotides encoding such proteins (such as, for example, in gene therapies or vectors suitable for introduction of DNA).

#### Research Uses and Utilities

The polynucleotides provided by the present invention can be used by the research community for various purposes. The primary use of polynucleotides of the invention which are sESTs is as probes for the identification and isolation of full-length cDNAs and genomic DNA molecules which correspond (i.e., is a longer polynucleotide sequence of which substantially the entire sEST is a fragment in the case of a full-length cDNA, or which encodes the sEST in the case of a genomic DNA molecule) to such sESTs. Techniques for use of such sequences as probes for larger cDNAs or genomic molecules are well known in the art.

The polynucleotides can also be used to express recombinant protein for analysis, characterization or therapeutic use; as markers for tissues in which the corresponding protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in disease states); as molecular weight markers on Southern gels; as chromosome markers or tags (when labeled) to identify chromosomes or to map related gene positions; to compare with endogenous DNA sequences in patients to identify potential genetic disorders; as probes to hybridize and thus discover novel, related DNA sequences; as a source of information to derive PCR primers for genetic fingerprinting; as a probe to "subtract-out" known sequences in the process of discovering other novel polynucleotides; for selecting and making oligomers for attachment to a "gene chip" or other support, including for examination of expression patterns; to raise anti-protein antibodies using DNA immunization techniques; and as an antigen to raise anti-DNA antibodies or elicit another immune response. Where the polynucleotide encodes a protein which binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the polynucleotide can also be used in interaction trap assays (such as, for example, that described in Gyuris et al., Cell 75:791-803 (1993)) to

identify polynucleotides encoding the other protein with which binding occurs or to identify inhibitors of the binding interaction.

The proteins provided by the present invention can similarly be used in assay to determine biological activity, including in a panel of multiple proteins for high-throughput screening; to raise antibodies or to elicit another immune response; as a reagent (including the labeled reagent) in assays designed to quantitatively determine levels of the protein (or its receptor) in biological fluids; as markers for tissues in which the corresponding protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in a disease state); and, of course, to isolate correlative receptors or ligands. Where the protein binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the protein can be used to identify the other protein with which binding occurs or to identify inhibitors of the binding interaction. Proteins involved in these binding interactions can also be used to screen for peptide or small molecule inhibitors or agonists of the binding interaction.

Any or all of these research utilities are capable of being developed into reagent grade or kit format for commercialization as research products.

Methods for performing the uses listed above are well known to those skilled in the art. References disclosing such methods include without limitation "Molecular Cloning: A Laboratory Manual", 2d ed., Cold Spring Harbor Laboratory Press, Sambrook, J., E.F. Fritsch and T. Maniatis eds., 1989, and "Methods in Enzymology: Guide to Molecular Cloning Techniques", Academic Press, Berger, S.L. and A.R. Kimmel eds., 1987.

#### Nutritional Uses

Polynucleotides and proteins of the present invention can also be used as nutritional sources or supplements. Such uses include without limitation use as a protein or amino acid supplement, use as a carbon source, use as a nitrogen source and use as a source of carbohydrate. In such cases the protein or polynucleotide of the invention can be added to the feed of a particular organism or can be administered as a separate solid or liquid preparation, such as in the form of powder, pills, solutions, suspensions or capsules. In the case of microorganisms, the protein or polynucleotide of the invention can be added to the medium in or on which the microorganism is cultured.

Cytokine and Cell Proliferation/Differentiation Activity

A protein of the present invention may exhibit cytokine, cell proliferation (either inducing or inhibiting) or cell differentiation (either inducing or inhibiting) activity or may induce production of other cytokines in certain cell populations.

- 5 Many protein factors discovered to date, including all known cytokines, have exhibited activity in one or more factor dependent cell proliferation assays, and hence the assays serve as a convenient confirmation of cytokine activity. The activity of a protein of the present invention is evidenced by any one of a number of routine factor dependent cell proliferation assays for cell lines including, without limitation, 32D,  
10 DA2, DA1G, T10, B9, B9/11, BaF3, MC9/G, M+ (preB M+), 2E8, RB5, DA1, 123, T1165, HT2, CTLL2, TF-1, Mo7e and CMK.

The activity of a protein of the invention may, among other means, be measured by the following methods:

- Assays for T-cell or thymocyte proliferation include without limitation those  
15 described in: *Current Protocols in Immunology*, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Takai et al., *J. Immunol.* 137:3494-3500, 1986; Bertagnolli et al., *J. Immunol.* 145:1706-1712, 1990; Bertagnolli  
20 et al., *Cellular Immunology* 133:327-341, 1991; Bertagnolli, et al., *J. Immunol.* 149:3778-3783, 1992; Bowman et al., *J. Immunol.* 152: 1756-1761, 1994.

- Assays for cytokine production and/or proliferation of spleen cells, lymph node cells or thymocytes include, without limitation, those described in: Polyclonal T cell stimulation, Kruisbeek, A.M. and Shevach, E.M. In *Current Protocols in*  
25 *Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.12.1-3.12.14, John Wiley and Sons, Toronto. 1994; and Measurement of mouse and human Interferon  $\gamma$ , Schreiber, R.D. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.8.1-6.8.8, John Wiley and Sons, Toronto. 1994.

- Assays for proliferation and differentiation of hematopoietic and  
30 lymphopoietic cells include, without limitation, those described in: Measurement of Human and Murine Interleukin 2 and Interleukin 4, Bottomly, K., Davis, L.S. and Lipsky, P.E. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.3.1-6.3.12, John Wiley and Sons, Toronto. 1991; deVries et al., *J. Exp. Med.* 173:1205-1211, 1991; Moreau et al., *Nature* 336:690-692, 1988; Greenberger et al., *Proc.*

- Natl. Acad. Sci. U.S.A. 80:2931-2938, 1983; Measurement of mouse and human interleukin 6 - Nordan, R. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.6.1-6.6.5, John Wiley and Sons, Toronto. 1991; Smith et al., Proc. Natl. Acad. Sci. U.S.A. 83:1857-1861, 1986; Measurement of human Interleukin 11 - Bennett, F.,
- 5 Giannotti, J., Clark, S.C. and Turner, K. J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.15.1 John Wiley and Sons, Toronto. 1991; Measurement of mouse and human Interleukin 9 - Ciarletta, A., Giannotti, J., Clark, S.C. and Turner, K.J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.13.1, John Wiley and Sons, Toronto. 1991.
- 10 Assays for T-cell clone responses to antigens (which will identify, among others, proteins that affect APC-T cell interactions as well as direct T-cell effects by measuring proliferation and cytokine production) include, without limitation, those described in: *Current Protocols in Immunology*, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and
- 15 Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function; Chapter 6, Cytokines and their cellular receptors; Chapter 7, Immunologic studies in Humans); Weinberger et al., Proc. Natl. Acad. Sci. USA 77:6091-6095, 1980; Weinberger et al., Eur. J. Immun. 11:405-411, 1981; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988.

20

#### Immune Stimulating or Suppressing Activity

- A protein of the present invention may also exhibit immune stimulating or immune suppressing activity, including without limitation the activities for which assays are described herein. A protein may be useful in the treatment of various
- 25 immune deficiencies and disorders (including severe combined immunodeficiency (SCID)), e.g., in regulating (up or down) growth and proliferation of T and/or B lymphocytes, as well as effecting the cytolytic activity of NK cells and other cell populations. These immune deficiencies may be genetic or be caused by viral (e.g., HIV) as well as bacterial or fungal infections, or may result from autoimmune
- 30 disorders. More specifically, infectious diseases caused by viral, bacterial, fungal or other infection may be treatable using a protein of the present invention, including infections by HIV, hepatitis viruses, herpesviruses, mycobacteria, Leishmania spp., malaria spp. and various fungal infections such as candidiasis. Of course, in this

regard, a protein of the present invention may also be useful where a boost to the immune system generally may be desirable, *i.e.*, in the treatment of cancer.

Autoimmune disorders which may be treated using a protein of the present invention include, for example, connective tissue disease, multiple sclerosis, systemic lupus erythematosus, rheumatoid arthritis, autoimmune pulmonary inflammation, Guillain-Barre syndrome, autoimmune thyroiditis, insulin dependent diabetes mellitus, myasthenia gravis, graft-versus-host disease and autoimmune inflammatory eye disease. Such a protein of the present invention may also to be useful in the treatment of allergic reactions and conditions, such as asthma (particularly allergic asthma) or other respiratory problems. Other conditions, in which immune suppression is desired (including, for example, organ transplantation), may also be treatable using a protein of the present invention.

Using the proteins of the invention it may also be possible to immune responses, in a number of ways. Down regulation may be in the form of inhibiting or blocking an immune response already in progress or may involve preventing the induction of an immune response. The functions of activated T cells may be inhibited by suppressing T cell responses or by inducing specific tolerance in T cells, or both. Immunosuppression of T cell responses is generally an active, non-antigen-specific, process which requires continuous exposure of the T cells to the suppressive agent. Tolerance, which involves inducing non-responsiveness or anergy in T cells, is distinguishable from immunosuppression in that it is generally antigen-specific and persists after exposure to the tolerizing agent has ceased. Operationally, tolerance can be demonstrated by the lack of a T cell response upon reexposure to specific antigen in the absence of the tolerizing agent.

Down regulating or preventing one or more antigen functions (including without limitation B lymphocyte antigen functions (such as , for example, B7)), *e.g.*, preventing high level lymphokine synthesis by activated T cells, will be useful in situations of tissue, skin and organ transplantation and in graft-versus-host disease (GVHD). For example, blockage of T cell function should result in reduced tissue destruction in tissue transplantation. Typically, in tissue transplants, rejection of the transplant is initiated through its recognition as foreign by T cells, followed by an immune reaction that destroys the transplant. The administration of a molecule which inhibits or blocks interaction of a B7 lymphocyte antigen with its natural ligand(s) on immune cells (such as a soluble, monomeric form of a peptide having

B7-2 activity alone or in conjunction with a monomeric form of a peptide having an activity of another B lymphocyte antigen (*e.g.*, B7-1, B7-3) or blocking antibody), prior to transplantation can lead to the binding of the molecule to the natural ligand(s) on the immune cells without transmitting the corresponding costimulatory signal.

- 5 Blocking B lymphocyte antigen function in this matter prevents cytokine synthesis by immune cells, such as T cells, and thus acts as an immunosuppressant. Moreover, the lack of costimulation may also be sufficient to anergize the T cells, thereby inducing tolerance in a subject. Induction of long-term tolerance by B lymphocyte antigen-blocking reagents may avoid the necessity of repeated administration of  
10 these blocking reagents. To achieve sufficient immunosuppression or tolerance in a subject, it may also be necessary to block the function of a combination of B lymphocyte antigens.

- The efficacy of particular blocking reagents in preventing organ transplant rejection or GVHD can be assessed using animal models that are predictive of efficacy  
15 in humans. Examples of appropriate systems which can be used include allogeneic cardiac grafts in rats and xenogeneic pancreatic islet cell grafts in mice, both of which have been used to examine the immunosuppressive effects of CTLA4Ig fusion proteins *in vivo* as described in Lenschow *et al.*, Science 257:789-792 (1992) and Turka *et al.*, Proc. Natl. Acad. Sci USA, 89:11102-11105 (1992). In addition, murine models  
20 of GVHD (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 846-847) can be used to determine the effect of blocking B lymphocyte antigen function *in vivo* on the development of that disease.

- Blocking antigen function may also be therapeutically useful for treating autoimmune diseases. Many autoimmune disorders are the result of inappropriate  
25 activation of T cells that are reactive against self tissue and which promote the production of cytokines and autoantibodies involved in the pathology of the diseases. Preventing the activation of autoreactive T cells may reduce or eliminate disease symptoms. Administration of reagents which block costimulation of T cells by disrupting receptor:ligand interactions of B lymphocyte antigens can be used to  
30 inhibit T cell activation and prevent production of autoantibodies or T cell-derived cytokines which may be involved in the disease process. Additionally, blocking reagents may induce antigen-specific tolerance of autoreactive T cells which could lead to long-term relief from the disease. The efficacy of blocking reagents in preventing or alleviating autoimmune disorders can be determined using a number

of well-characterized animal models of human autoimmune diseases. Examples include murine experimental autoimmune encephalitis, systemic lupus erythematosus in MRL/*lpr/lpr* mice or NZB hybrid mice, murine autoimmune collagen arthritis, diabetes mellitus in NOD mice and BB rats, and murine experimental myasthenia  
5 gravis (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 840-856).

Upregulation of an antigen function (preferably a B lymphocyte antigen function), as a means of up regulating immune responses, may also be useful in therapy. Upregulation of immune responses may be in the form of enhancing an  
10 existing immune response or eliciting an initial immune response. For example, enhancing an immune response through stimulating B lymphocyte antigen function may be useful in cases of viral infection. In addition, systemic viral diseases such as influenza, the common cold, and encephalitis might be alleviated by the administration of stimulatory forms of B lymphocyte antigens systemically.

15 Alternatively, anti-viral immune responses may be enhanced in an infected patient by removing T cells from the patient, costimulating the T cells *in vitro* with viral antigen-pulsed APCs either expressing a peptide of the present invention or together with a stimulatory form of a soluble peptide of the present invention and reintroducing the *in vitro* activated T cells into the patient. Another method of  
20 enhancing anti-viral immune responses would be to isolate infected cells from a patient, transfect them with a nucleic acid encoding a protein of the present invention as described herein such that the cells express all or a portion of the protein on their surface, and reintroduce the transfected cells into the patient. The infected cells would now be capable of delivering a costimulatory signal to, and thereby activate,  
25 T cells *in vivo*.

In another application, up regulation or enhancement of antigen function (preferably B lymphocyte antigen function) may be useful in the induction of tumor immunity. Tumor cells (*e.g.*, sarcoma, melanoma, lymphoma, leukemia, neuroblastoma, carcinoma) transfected with a nucleic acid encoding at least one  
30 peptide of the present invention can be administered to a subject to overcome tumor-specific tolerance in the subject. If desired, the tumor cell can be transfected to express a combination of peptides. For example, tumor cells obtained from a patient can be transfected *ex vivo* with an expression vector directing the expression of a peptide having B7-2-like activity alone, or in conjunction with a peptide having B7-1-

like activity and/or B7-3-like activity. The transfected tumor cells are returned to the patient to result in expression of the peptides on the surface of the transfected cell. Alternatively, gene therapy techniques can be used to target a tumor cell for transfection *in vivo*.

- 5           The presence of the peptide of the present invention having the activity of a B lymphocyte antigen(s) on the surface of the tumor cell provides the necessary costimulation signal to T cells to induce a T cell mediated immune response against the transfected tumor cells. In addition, tumor cells which lack MHC class I or MHC class II molecules, or which fail to reexpress sufficient amounts of MHC class I or
- 10 MHC class II molecules, can be transfected with nucleic acid encoding all or a portion of (*e.g.*, a cytoplasmic-domain truncated portion) of an MHC class I  $\alpha$  chain protein and  $\beta_2$  microglobulin protein or an MHC class II  $\alpha$  chain protein and an MHC class II  $\beta$  chain protein to thereby express MHC class I or MHC class II proteins on the cell surface. Expression of the appropriate class I or class II MHC in conjunction with a
- 15 peptide having the activity of a B lymphocyte antigen (*e.g.*, B7-1, B7-2, B7-3) induces a T cell mediated immune response against the transfected tumor cell. Optionally, a gene encoding an antisense construct which blocks expression of an MHC class II associated protein, such as the invariant chain, can also be cotransfected with a DNA encoding a peptide having the activity of a B lymphocyte antigen to promote
- 20 presentation of tumor associated antigens and induce tumor specific immunity. Thus, the induction of a T cell mediated immune response in a human subject may be sufficient to overcome tumor-specific tolerance in the subject.

The activity of a protein of the invention may, among other means, be measured by the following methods:

- 25           Suitable assays for thymocyte or splenocyte cytotoxicity include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Herrmann et al., Proc.
- 30 Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Herrmann et al., Proc. Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J.

Immunol. 137:3494-3500, 1986; Bowman et al., J. Virology 61:1992-1998; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnoli et al., Cellular Immunology 133:327-341, 1991; Brown et al., J. Immunol. 153:3079-3092, 1994.

Assays for T-cell-dependent immunoglobulin responses and isotype  
 5 switching (which will identify, among others, proteins that modulate T-cell  
 dependent antibody responses and that affect Th1/Th2 profiles) include, without  
 limitation, those described in: Maliszewski, J. Immunol. 144:3028-3033, 1990; and  
 Assays for B cell function: *In vitro* antibody production, Mond, J.J. and Brunswick,  
 M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.8.1-3.8.16, John  
 10 Wiley and Sons, Toronto. 1994.

Mixed lymphocyte reaction (MLR) assays (which will identify, among others,  
 proteins that generate predominantly Th1 and CTL responses) include, without  
 limitation, those described in: *Current Protocols in Immunology*, Ed by J. E. Coligan,  
 A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing  
 15 Associates and Wiley-Interscience (Chapter 3, *In Vitro* assays for Mouse Lymphocyte  
 Function 3.1-3.19; Chapter 7, *Immunologic studies in Humans*); Takai et al., J.  
 Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnoli  
 et al., J. Immunol. 149:3778-3783, 1992.

Dendritic cell-dependent assays (which will identify, among others, proteins  
 20 expressed by dendritic cells that activate naive T-cells) include, without limitation,  
 those described in: Guery et al., J. Immunol. 134:536-544, 1995; Inaba et al., *Journal of*  
*Experimental Medicine* 173:549-559, 1991; Macatonia et al., *Journal of Immunology*  
 154:5071-5079, 1995; Porgador et al., *Journal of Experimental Medicine* 182:255-260,  
 1995; Nair et al., *Journal of Virology* 67:4062-4069, 1993; Huang et al., *Science*  
 25 264:961-965, 1994; Macatonia et al., *Journal of Experimental Medicine* 169:1255-1264,  
 1989; Bhardwaj et al., *Journal of Clinical Investigation* 94:797-807, 1994; and Inaba et  
 al., *Journal of Experimental Medicine* 172:631-640, 1990.

Assays for lymphocyte survival/apoptosis (which will identify, among others,  
 proteins that prevent apoptosis after superantigen induction and proteins that  
 30 regulate lymphocyte homeostasis) include, without limitation, those described in:  
 Darzynkiewicz et al., *Cytometry* 13:795-808, 1992; Gorczyca et al., *Leukemia*  
 7:659-670, 1993; Gorczyca et al., *Cancer Research* 53:1945-1951, 1993; Itoh et al., *Cell*  
 66:233-243, 1991; Zacharchuk, *Journal of Immunology* 145:4037-4045, 1990; Zamai et

al., Cytometry 14:891-897, 1993; Gorczyca et al., International Journal of Oncology 1:639-648, 1992.

Assays for proteins that influence early steps of T-cell commitment and development include, without limitation, those described in: Antica et al., Blood 84:111-117, 1994; Fine et al., Cellular Immunology 155:111-122, 1994; Galy et al., Blood 85:2770-2778, 1995; Toki et al., Proc. Nat. Acad Sci. USA 88:7548-7551, 1991.

#### Hematopoiesis Regulating Activity

A protein of the present invention may be useful in regulation of hematopoiesis and, consequently, in the treatment of myeloid or lymphoid cell deficiencies. Even marginal biological activity in support of colony forming cells or of factor-dependent cell lines indicates involvement in regulating hematopoiesis, e.g. in supporting the growth and proliferation of erythroid progenitor cells alone or in combination with other cytokines, thereby indicating utility, for example, in treating various anemias or for use in conjunction with irradiation/chemotherapy to stimulate the production of erythroid precursors and/or erythroid cells; in supporting the growth and proliferation of myeloid cells such as granulocytes and monocytes/macrophages (i.e., traditional CSF activity) useful, for example, in conjunction with chemotherapy to prevent or treat consequent myelo-suppression; in supporting the growth and proliferation of megakaryocytes and consequently of platelets thereby allowing prevention or treatment of various platelet disorders such as thrombocytopenia, and generally for use in place of or complimentary to platelet transfusions; and/or in supporting the growth and proliferation of hematopoietic stem cells which are capable of maturing to any and all of the above-mentioned hematopoietic cells and therefore find therapeutic utility in various stem cell disorders (such as those usually treated with transplantation, including, without limitation, aplastic anemia and paroxysmal nocturnal hemoglobinuria), as well as in repopulating the stem cell compartment post irradiation/chemotherapy, either *in-vivo* or *ex-vivo* (i.e., in conjunction with bone marrow transplantation or with peripheral progenitor cell transplantation (homologous or heterologous)) as normal cells or genetically manipulated for gene therapy.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for proliferation and differentiation of various hematopoietic lines are cited above.

Assays for embryonic stem cell differentiation (which will identify, among others, proteins that influence embryonic differentiation hematopoiesis) include, without limitation, those described in: Johansson et al. *Cellular Biology* 15:141-151, 1995; Keller et al., *Molecular and Cellular Biology* 13:473-486, 1993; McClanahan et al., *Blood* 81:2903-2915, 1993.

Assays for stem cell survival and differentiation (which will identify, among others, proteins that regulate lympho-hematopoiesis) include, without limitation, those described in: Methylcellulose colony forming assays, Freshney, M.G. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 265-268, Wiley-Liss, Inc., New York, NY. 1994; Hirayama et al., *Proc. Natl. Acad. Sci. USA* 89:5907-5911, 1992; Primitive hematopoietic colony forming cells with high proliferative potential, McNiece, I.K. and Briddell, R.A. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 23-39, Wiley-Liss, Inc., New York, NY. 1994; Neben et al., *Experimental Hematology* 22:353-359, 1994; Cobblestone area forming cell assay, Ploemacher, R.E. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 1-21, Wiley-Liss, Inc., New York, NY. 1994; Long term bone marrow cultures in the presence of stromal cells, Spooncer, E., Dexter, M. and Allen, T. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 163-179, Wiley-Liss, Inc., New York, NY. 1994; Long term culture initiating cell assay, Sutherland, H.J. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 139-162, Wiley-Liss, Inc., New York, NY. 1994.

#### Tissue Growth Activity

A protein of the present invention also may have utility in compositions used for bone, cartilage, tendon, ligament and/or nerve tissue growth or regeneration, as well as for wound healing and tissue repair and replacement, and in the treatment of burns, incisions and ulcers.

A protein of the present invention, which induces cartilage and/or bone growth in circumstances where bone is not normally formed, has application in the healing of bone fractures and cartilage damage or defects in humans and other animals. Such a preparation employing a protein of the invention may have prophylactic use in closed as well as open fracture reduction and also in the improved fixation of artificial joints. *De novo* bone formation induced by an

osteogenic agent contributes to the repair of congenital, trauma induced, or oncologic resection induced craniofacial defects, and also is useful in cosmetic plastic surgery.

A protein of this invention may also be used in the treatment of periodontal disease, and in other tooth repair processes. Such agents may provide an  
5 environment to attract bone-forming cells, stimulate growth of bone-forming cells or induce differentiation of progenitors of bone-forming cells. A protein of the invention may also be useful in the treatment of osteoporosis or osteoarthritis, such as through stimulation of bone and/or cartilage repair or by blocking inflammation or processes  
10 of tissue destruction (collagenase activity, osteoclast activity, etc.) mediated by inflammatory processes.

Another category of tissue regeneration activity that may be attributable to the protein of the present invention is tendon/ligament formation. A protein of the present invention, which induces tendon/ligament-like tissue or other tissue formation in circumstances where such tissue is not normally formed, has application  
15 in the healing of tendon or ligament tears, deformities and other tendon or ligament defects in humans and other animals. Such a preparation employing a tendon/ligament-like tissue inducing protein may have prophylactic use in preventing damage to tendon or ligament tissue, as well as use in the improved fixation of tendon or ligament to bone or other tissues, and in repairing defects to  
20 tendon or ligament tissue. De novo tendon/ligament-like tissue formation induced by a composition of the present invention contributes to the repair of congenital, trauma induced, or other tendon or ligament defects of other origin, and is also useful in cosmetic plastic surgery for attachment or repair of tendons or ligaments. The compositions of the present invention may provide an environment to attract tendon-  
25 or ligament-forming cells, stimulate growth of tendon- or ligament-forming cells, induce differentiation of progenitors of tendon- or ligament-forming cells, or induce growth of tendon/ligament cells or progenitors *ex vivo* for return *in vivo* to effect tissue repair. The compositions of the invention may also be useful in the treatment of tendinitis, carpal tunnel syndrome and other tendon or ligament defects. The  
30 compositions may also include an appropriate matrix and/or sequestering agent as a carrier as is well known in the art.

The protein of the present invention may also be useful for proliferation of neural cells and for regeneration of nerve and brain tissue, *i.e.* for the treatment of central and peripheral nervous system diseases and neuropathies, as well as

mechanical and traumatic disorders, which involve degeneration, death or trauma to neural cells or nerve tissue. More specifically, a protein may be used in the treatment of diseases of the peripheral nervous system, such as peripheral nerve injuries, peripheral neuropathy and localized neuropathies, and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager syndrome. Further conditions which may be treated in accordance with the present invention include mechanical and traumatic disorders, such as spinal cord disorders, head trauma and cerebrovascular diseases such as stroke. Peripheral neuropathies resulting from chemotherapy or other medical therapies may also be treatable using a protein of the invention.

Proteins of the invention may also be useful to promote better or faster closure of non-healing wounds, including without limitation pressure ulcers, ulcers associated with vascular insufficiency, surgical and traumatic wounds, and the like.

It is expected that a protein of the present invention may also exhibit activity for generation or regeneration of other tissues, such as organs (including, for example, pancreas, liver, intestine, kidney, skin, endothelium), muscle (smooth, skeletal or cardiac) and vascular (including vascular endothelium) tissue, or for promoting the growth of cells comprising such tissues. Part of the desired effects may be by inhibition or modulation of fibrotic scarring to allow normal tissue to regenerate. A protein of the invention may also exhibit angiogenic activity.

A protein of the present invention may also be useful for gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues, and conditions resulting from systemic cytokine damage.

A protein of the present invention may also be useful for promoting or inhibiting differentiation of tissues described above from precursor tissues or cells; or for inhibiting the growth of tissues described above.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for tissue generation activity include, without limitation, those described in: International Patent Publication No. WO95/16035 (bone, cartilage, tendon); International Patent Publication No. WO95/05846 (nerve, neuronal); International Patent Publication No. WO91/07491 (skin, endothelium ).

Assays for wound healing activity include, without limitation, those described in: Winter, Epidermal Wound Healing, pps. 71-112 (Maibach, HI and Rovee, DT,

eds.), Year Book Medical Publishers, Inc., Chicago, as modified by Eaglstein and Mertz, J. Invest. Dermatol 71:382-84 (1978).

#### Activin/Inhibin Activity

5 A protein of the present invention may also exhibit activin- or inhibin-related activities. Inhibins are characterized by their ability to inhibit the release of follicle stimulating hormone (FSH), while activins are characterized by their ability to stimulate the release of follicle stimulating hormone (FSH). Thus, a protein of the present invention, alone or in heterodimers with a member of the inhibin  $\alpha$  family,  
10 may be useful as a contraceptive based on the ability of inhibins to decrease fertility in female mammals and decrease spermatogenesis in male mammals. Administration of sufficient amounts of other inhibins can induce infertility in these mammals. Alternatively, the protein of the invention, as a homodimer or as a heterodimer with other protein subunits of the inhibin- $\beta$  group, may be useful as a  
15 fertility inducing therapeutic, based upon the ability of activin molecules in stimulating FSH release from cells of the anterior pituitary. See, for example, United States Patent 4,798,885. A protein of the invention may also be useful for advancement of the onset of fertility in sexually immature mammals, so as to increase the lifetime reproductive performance of domestic animals such as cows, sheep and  
20 pigs.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for activin/inhibin activity include, without limitation, those described in: Vale et al., Endocrinology 91:562-572, 1972; Ling et al., Nature 321:779-782, 1986;  
25 Vale et al., Nature 321:776-779, 1986; Mason et al., Nature 318:659-663, 1985; Forage et al., Proc. Natl. Acad. Sci. USA 83:3091-3095, 1986.

#### Chemotactic/Chemokinetic Activity

A protein of the present invention may have chemotactic or chemokinetic  
30 activity (e.g., act as a chemokine) for mammalian cells, including, for example, monocytes, fibroblasts, neutrophils, T-cells, mast cells, eosinophils, epithelial and/or endothelial cells. Chemotactic and chemokinetic proteins can be used to mobilize or attract a desired cell population to a desired site of action. Chemotactic or chemokinetic proteins provide particular advantages in treatment of wounds and

other trauma to tissues, as well as in treatment of localized infections. For example, attraction of lymphocytes, monocytes or neutrophils to tumors or sites of infection may result in improved immune responses against the tumor or infecting agent.

5 A protein or peptide has chemotactic activity for a particular cell population if it can stimulate, directly or indirectly, the directed orientation or movement of such cell population. Preferably, the protein or peptide has the ability to directly stimulate directed movement of cells. Whether a particular protein has chemotactic activity for a population of cells can be readily determined by employing such protein or peptide in any known assay for cell chemotaxis.

10 The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for chemotactic activity (which will identify proteins that induce or prevent chemotaxis) consist of assays that measure the ability of a protein to induce the migration of cells across a membrane as well as the ability of a protein to induce  
15 the adhesion of one cell population to another cell population. Suitable assays for movement and adhesion include, without limitation, those described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W.Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 6.12, Measurement of alpha and beta Chemokines 6.12.1-6.12.28; Taub et al.  
20 J. Clin. Invest. 95:1370-1376, 1995; Lind et al. APMIS 103:140-146, 1995; Muller et al Eur. J. Immunol. 25: 1744-1748; Gruber et al. J. of Immunol. 152:5860-5867, 1994; Johnston et al. J. of Immunol. 153: 1762-1768, 1994.

#### Hemostatic and Thrombolytic Activity

25 A protein of the invention may also exhibit hemostatic or thrombolytic activity. As a result, such a protein is expected to be useful in treatment of various coagulation disorders (including hereditary disorders, such as hemophilias) or to enhance coagulation and other hemostatic events in treating wounds resulting from trauma, surgery or other causes. A protein of the invention may also be useful for  
30 dissolving or inhibiting formation of thromboses and for treatment and prevention of conditions resulting therefrom (such as, for example, infarction of cardiac and central nervous system vessels (e.g., stroke).

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assay for hemostatic and thrombolytic activity include, without limitation, those described in: Linet et al., J. Clin. Pharmacol. 26:131-140, 1986; Burdick et al., Thrombosis Res. 45:413-419, 1987; Humphrey et al., Fibrinolysis 5:71-79 (1991); Schaub, Prostaglandins 35:467-474, 1988.

5

#### Receptor/Ligand Activity

A protein of the present invention may also demonstrate activity as receptors, receptor ligands or inhibitors or agonists of receptor/ligand interactions. Examples of such receptors and ligands include, without limitation, cytokine receptors and their  
10 ligands, receptor kinases and their ligands, receptor phosphatases and their ligands, receptors involved in cell-cell interactions and their ligands (including without limitation, cellular adhesion molecules (such as selectins, integrins and their ligands) and receptor/ligand pairs involved in antigen presentation, antigen recognition and development of cellular and humoral immune responses). Receptors and ligands are  
15 also useful for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. A protein of the present invention (including, without limitation, fragments of receptors and ligands) may themselves be useful as inhibitors of receptor/ligand interactions.

The activity of a protein of the invention may, among other means, be  
20 measured by the following methods:

Suitable assays for receptor-ligand activity include without limitation those described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W. Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 7.28, Measurement of Cellular Adhesion under static  
25 conditions 7.28.1-7.28.22), Takai et al., Proc. Natl. Acad. Sci. USA 84:6864-6868, 1987; Bierer et al., J. Exp. Med. 168:1145-1156, 1988; Rosenstein et al., J. Exp. Med. 169:149-160 1989; Stoltenborg et al., J. Immunol. Methods 175:59-68, 1994; Stitt et al., Cell 80:661-670, 1995.

30

#### Anti-Inflammatory Activity

Proteins of the present invention may also exhibit anti-inflammatory activity. The anti-inflammatory activity may be achieved by providing a stimulus to cells involved in the inflammatory response, by inhibiting or promoting cell-cell interactions (such as, for example, cell adhesion), by inhibiting or promoting

chemotaxis of cells involved in the inflammatory process, inhibiting or promoting cell extravasation, or by stimulating or suppressing production of other factors which more directly inhibit or promote an inflammatory response. Proteins exhibiting such activities can be used to treat inflammatory conditions including chronic or acute  
5 conditions), including without limitation inflammation associated with infection (such as septic shock, sepsis or systemic inflammatory response syndrome (SIRS)), ischemia-reperfusion injury, endotoxin lethality, arthritis, complement-mediated hyperacute rejection, nephritis, cytokine or chemokine-induced lung injury, inflammatory bowel disease, Crohn's disease or resulting from over production of  
10 cytokines such as TNF or IL-1. Proteins of the invention may also be useful to treat anaphylaxis and hypersensitivity to an antigenic substance or material.

#### Tumor Inhibition Activity

In addition to the activities described above for immunological treatment or  
15 prevention of tumors, a protein of the invention may exhibit other anti-tumor activities. A protein may inhibit tumor growth directly or indirectly (such as, for example, via ADCC). A protein may exhibit its tumor inhibitory activity by acting on tumor tissue or tumor precursor tissue, by inhibiting formation of tissues necessary to support tumor growth (such as, for example, by inhibiting angiogenesis),  
20 by causing production of other factors, agents or cell types which inhibit tumor growth, or by suppressing, eliminating or inhibiting factors, agents or cell types which promote tumor growth.

#### 25 Other Activities

A protein of the invention may also exhibit one or more of the following additional activities or effects: inhibiting the growth, infection or function of, or killing, infectious agents, including, without limitation, bacteria, viruses, fungi and other parasites; effecting (suppressing or enhancing) bodily characteristics, including,  
30 without limitation, height, weight, hair color, eye color, skin, fat to lean ratio or other tissue pigmentation, or organ or body part size or shape (such as, for example, breast augmentation or diminution, change in bone form or shape); effecting biorhythms or circadian cycles or rhythms; effecting the fertility of male or female subjects; effecting the metabolism, catabolism, anabolism, processing, utilization, storage or elimination

of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors or other nutritional factors or component(s); effecting behavioral characteristics, including, without limitation, appetite, libido, stress, cognition (including cognitive disorders), depression (including depressive disorders) and violent behaviors; providing  
5 analgesic effects or other pain reducing effects; promoting differentiation and growth of embryonic stem cells in lineages other than hematopoietic lineages; hormonal or endocrine activity; in the case of enzymes, correcting deficiencies of the enzyme and treating deficiency-related diseases; treatment of hyperproliferative disorders (such as, for example, psoriasis); immunoglobulin-like activity (such as, for example, the  
10 ability to bind antigens or complement); and the ability to act as an antigen in a vaccine composition to raise an immune response against such protein or another material or entity which is cross-reactive with such protein.

15

### ADMINISTRATION AND DOSING

A protein of the present invention (from whatever source derived, including without limitation from recombinant and non-recombinant sources) may be used in a pharmaceutical composition when combined with a pharmaceutically acceptable carrier. Such a composition may also contain (in addition to protein and a carrier) 5 diluents, fillers, salts, buffers, stabilizers, solubilizers, and other materials well known in the art. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredient(s). The characteristics of the carrier will depend on the route of 10 administration. The pharmaceutical composition of the invention may also contain cytokines, lymphokines, or other hematopoietic factors such as M-CSF, GM-CSF, TNF, IL-1, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12, IL-13, IL-14, IL-15, IFN, TNF0, TNF1, TNF2, G-CSF, Meg-CSF, thrombopoietin, stem cell factor, and erythropoietin. The pharmaceutical composition may further contain other 15 agents which either enhance the activity of the protein or compliment its activity or use in treatment. Such additional factors and/or agents may be included in the pharmaceutical composition to produce a synergistic effect with protein of the invention, or to minimize side effects. Conversely, protein of the present invention may be included in formulations of the particular cytokine, lymphokine, other 20 hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent to minimize side effects of the cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent.

A protein of the present invention may be active in multimers (e.g., heterodimers or homodimers) or complexes with itself or other proteins. As a result, 25 pharmaceutical compositions of the invention may comprise a protein of the invention in such multimeric or complexed form.

The pharmaceutical composition of the invention may be in the form of a complex of the protein(s) of present invention along with protein or peptide antigens. The protein and/or peptide antigen will deliver a stimulatory signal to both B and 30 T lymphocytes. B lymphocytes will respond to antigen through their surface immunoglobulin receptor. T lymphocytes will respond to antigen through the T cell receptor (TCR) following presentation of the antigen by MHC proteins. MHC and structurally related proteins including those encoded by class I and class II MHC genes on host cells will serve to present the peptide antigen(s) to T lymphocytes. The

antigen components could also be supplied as purified MHC-peptide complexes alone or with co-stimulatory molecules that can directly signal T cells. Alternatively antibodies able to bind surface immunoglobulin and other molecules on B cells as well as antibodies able to bind the TCR and other molecules on T cells can be  
5 combined with the pharmaceutical composition of the invention.

The pharmaceutical composition of the invention may be in the form of a liposome in which protein of the present invention is combined, in addition to other pharmaceutically acceptable carriers, with amphipathic agents such as lipids which exist in aggregated form as micelles, insoluble monolayers, liquid crystals, or lamellar  
10 layers in aqueous solution. Suitable lipids for liposomal formulation include, without limitation, monoglycerides, diglycerides, sulfatides, lysolecithin, phospholipids, saponin, bile acids, and the like. Preparation of such liposomal formulations is within the level of skill in the art, as disclosed, for example, in U.S. Patent No. 4,235,871; U.S. Patent No. 4,501,728; U.S. Patent No. 4,837,028; and U.S. Patent No. 4,737,323, all of  
15 which are incorporated herein by reference.

As used herein, the term "therapeutically effective amount" means the total amount of each active component of the pharmaceutical composition or method that is sufficient to show a meaningful patient benefit, i.e., treatment, healing, prevention or amelioration of the relevant medical condition, or an increase in rate of treatment,  
20 healing, prevention or amelioration of such conditions. When applied to an individual active ingredient, administered alone, the term refers to that ingredient alone. When applied to a combination, the term refers to combined amounts of the active ingredients that result in the therapeutic effect, whether administered in combination, serially or simultaneously.

25 In practicing the method of treatment or use of the present invention, a therapeutically effective amount of protein of the present invention is administered to a mammal having a condition to be treated. Protein of the present invention may be administered in accordance with the method of the invention either alone or in combination with other therapies such as treatments employing cytokines,  
30 lymphokines or other hematopoietic factors. When co-administered with one or more cytokines, lymphokines or other hematopoietic factors, protein of the present invention may be administered either simultaneously with the cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors, or sequentially. If administered sequentially, the attending physician will decide on

the appropriate sequence of administering protein of the present invention in combination with cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors.

Administration of protein of the present invention used in the pharmaceutical composition or to practice the method of the present invention can be carried out in a variety of conventional ways, such as oral ingestion, inhalation, topical application or cutaneous, subcutaneous, intraperitoneal, parenteral or intravenous injection. Intravenous administration to the patient is preferred.

When a therapeutically effective amount of protein of the present invention is administered orally, protein of the present invention will be in the form of a tablet, capsule, powder, solution or elixir. When administered in tablet form, the pharmaceutical composition of the invention may additionally contain a solid carrier such as a gelatin or an adjuvant. The tablet, capsule, and powder contain from about 5 to 95% protein of the present invention, and preferably from about 25 to 90% protein of the present invention. When administered in liquid form, a liquid carrier such as water, petroleum, oils of animal or plant origin such as peanut oil, mineral oil, soybean oil, or sesame oil, or synthetic oils may be added. The liquid form of the pharmaceutical composition may further contain physiological saline solution, dextrose or other saccharide solution, or glycols such as ethylene glycol, propylene glycol or polyethylene glycol. When administered in liquid form, the pharmaceutical composition contains from about 0.5 to 90% by weight of protein of the present invention, and preferably from about 1 to 50% protein of the present invention.

When a therapeutically effective amount of protein of the present invention is administered by intravenous, cutaneous or subcutaneous injection, protein of the present invention will be in the form of a pyrogen-free, parenterally acceptable aqueous solution. The preparation of such parenterally acceptable protein solutions, having due regard to pH, isotonicity, stability, and the like, is within the skill in the art. A preferred pharmaceutical composition for intravenous, cutaneous, or subcutaneous injection should contain, in addition to protein of the present invention, an isotonic vehicle such as Sodium Chloride Injection, Ringer's Injection, Dextrose Injection, Dextrose and Sodium Chloride Injection, Lactated Ringer's Injection, or other vehicle as known in the art. The pharmaceutical composition of the present invention may also contain stabilizers, preservatives, buffers, antioxidants, or other additives known to those of skill in the art.

The amount of protein of the present invention in the pharmaceutical composition of the present invention will depend upon the nature and severity of the condition being treated, and on the nature of prior treatments which the patient has undergone. Ultimately, the attending physician will decide the amount of protein of the present invention with which to treat each individual patient. Initially, the attending physician will administer low doses of protein of the present invention and observe the patient's response. Larger doses of protein of the present invention may be administered until the optimal therapeutic effect is obtained for the patient, and at that point the dosage is not increased further. It is contemplated that the various pharmaceutical compositions used to practice the method of the present invention should contain about 0.01 µg to about 100 mg (preferably about 0.1ng to about 10 mg, more preferably about 0.1 µg to about 1 mg) of protein of the present invention per kg body weight.

The duration of intravenous therapy using the pharmaceutical composition of the present invention will vary, depending on the severity of the disease being treated and the condition and potential idiosyncratic response of each individual patient. It is contemplated that the duration of each application of the protein of the present invention will be in the range of 12 to 24 hours of continuous intravenous administration. Ultimately the attending physician will decide on the appropriate duration of intravenous therapy using the pharmaceutical composition of the present invention.

Protein of the invention may also be used to immunize animals to obtain polyclonal and monoclonal antibodies which specifically react with the protein. Such antibodies may be obtained using either the entire protein or fragments thereof as an immunogen. The peptide immunogens additionally may contain a cysteine residue at the carboxyl terminus, and are conjugated to a hapten such as keyhole limpet hemocyanin (KLH). Methods for synthesizing such peptides are known in the art, for example, as in R.P. Merrifield, J. Amer.Chem.Soc. 85, 2149-2154 (1963); J.L. Krstenansky, *et al.*, FEBS Lett. 211, 10 (1987). Monoclonal antibodies binding to the protein of the invention may be useful diagnostic agents for the immunodetection of the protein. Neutralizing monoclonal antibodies binding to the protein may also be useful therapeutics for both conditions associated with the protein and also in the treatment of some forms of cancer where abnormal expression of the protein is involved. In the case of cancerous cells or leukemic cells, neutralizing monoclonal

antibodies against the protein may be useful in detecting and preventing the metastatic spread of the cancerous cells, which may be mediated by the protein.

For compositions of the present invention which are useful for bone, cartilage, tendon or ligament regeneration, the therapeutic method includes administering the composition topically, systematically, or locally as an implant or device. When administered, the therapeutic composition for use in this invention is, of course, in a pyrogen-free, physiologically acceptable form. Further, the composition may desirably be encapsulated or injected in a viscous form for delivery to the site of bone, cartilage or tissue damage. Topical administration may be suitable for wound healing and tissue repair. Therapeutically useful agents other than a protein of the invention which may also optionally be included in the composition as described above, may alternatively or additionally, be administered simultaneously or sequentially with the composition in the methods of the invention. Preferably for bone and/or cartilage formation, the composition would include a matrix capable of delivering the protein-containing composition to the site of bone and/or cartilage damage, providing a structure for the developing bone and cartilage and optimally capable of being resorbed into the body. Such matrices may be formed of materials presently in use for other implanted medical applications.

The choice of matrix material is based on biocompatibility, biodegradability, mechanical properties, cosmetic appearance and interface properties. The particular application of the compositions will define the appropriate formulation. Potential matrices for the compositions may be biodegradable and chemically defined calcium sulfate, tricalciumphosphate, hydroxyapatite, polylactic acid, polyglycolic acid and polyanhydrides. Other potential materials are biodegradable and biologically well-defined, such as bone or dermal collagen. Further matrices are comprised of pure proteins or extracellular matrix components. Other potential matrices are nonbiodegradable and chemically defined, such as sintered hydroxapatite, bioglass, aluminates, or other ceramics. Matrices may be comprised of combinations of any of the above mentioned types of material, such as polylactic acid and hydroxyapatite or collagen and tricalciumphosphate. The bioceramics may be altered in composition, such as in calcium-aluminate-phosphate and processing to alter pore size, particle size, particle shape, and biodegradability.

Presently preferred is a 50:50 (mole weight) copolymer of lactic acid and glycolic acid in the form of porous particles having diameters ranging from 150 to 800

microns. In some applications, it will be useful to utilize a sequestering agent, such as carboxymethyl cellulose or autologous blood clot, to prevent the protein compositions from disassociating from the matrix.

A preferred family of sequestering agents is cellulosic materials such as alkylcelluloses (including hydroxyalkylcelluloses), including methylcellulose, ethylcellulose, hydroxyethylcellulose, hydroxypropylcellulose, hydroxypropylmethylcellulose, and carboxymethylcellulose, the most preferred being cationic salts of carboxymethylcellulose (CMC). Other preferred sequestering agents include hyaluronic acid, sodium alginate, poly(ethylene glycol), polyoxyethylene oxide, carboxyvinyl polymer and poly(vinyl alcohol). The amount of sequestering agent useful herein is 0.5-20 wt%, preferably 1-10 wt% based on total formulation weight, which represents the amount necessary to prevent desorption of the protein from the polymer matrix and to provide appropriate handling of the composition, yet not so much that the progenitor cells are prevented from infiltrating the matrix, thereby providing the protein the opportunity to assist the osteogenic activity of the progenitor cells.

In further compositions, proteins of the invention may be combined with other agents beneficial to the treatment of the bone and/or cartilage defect, wound, or tissue in question. These agents include various growth factors such as epidermal growth factor (EGF), platelet derived growth factor (PDGF), transforming growth factors (TGF- $\alpha$  and TGF- $\beta$ ), and insulin-like growth factor (IGF).

The therapeutic compositions are also presently valuable for veterinary applications. Particularly domestic animals and thoroughbred horses, in addition to humans, are desired patients for such treatment with proteins of the present invention.

The dosage regimen of a protein-containing pharmaceutical composition to be used in tissue regeneration will be determined by the attending physician considering various factors which modify the action of the proteins, e.g., amount of tissue weight desired to be formed, the site of damage, the condition of the damaged tissue, the size of a wound, type of damaged tissue (e.g., bone), the patient's age, sex, and diet, the severity of any infection, time of administration and other clinical factors. The dosage may vary with the type of matrix used in the reconstitution and with inclusion of other proteins in the pharmaceutical composition. For example, the addition of other known growth factors, such as IGF I (insulin like growth factor I),

to the final composition, may also effect the dosage. Progress can be monitored by periodic assessment of tissue/bone growth and/or repair, for example, X-rays, histomorphometric determinations and tetracycline labeling.

Polynucleotides of the present invention can also be used for gene therapy.

- 5 Such polynucleotides can be introduced either *in vivo* or *ex vivo* into cells for expression in a mammalian subject. Polynucleotides of the invention may also be administered by other known methods for introduction of nucleic acid into a cell or organism (including, without limitation, in the form of viral vectors or naked DNA).

- 10 Cells may also be cultured *ex vivo* in the presence of proteins of the present invention in order to proliferate or to produce a desired effect on or activity in such cells. Treated cells can then be introduced *in vivo* for therapeutic purposes.

Patent and literature references cited herein are incorporated by reference as if fully set forth.

TABLE 3

<u>Sel.</u>	<u>Species</u>	<u>Stage</u>	<u>Tissue</u>	<u>Cell Type</u>	<u>Treatment</u>
PP	Human	Adult	Blood	LymphoblasticLeukemiaMOLT-4	None
PQ	Human	Adult	Tumor	ColorectalAdenocarcinomaSW480	None
PR	Human	Fetal	Kidney	N/A	None
PS	Human	Fetal	Kidney	N/A	None
PT	Human	Adult	Blood	LymphoblasticLeukemiaMOLT-4	None
PU	Human	Adult	Blood	Promyelocytic Leukemia HL-60	None
PV	Human	Adult	Brain	Cerebellum	None
PW	Human	Adult	Brain	Cerebellum	None
PX	Human	Adult	Brain	Cerebellum	None
PY	Human	Adult	Brain	Cerebellum	None
PZ	Human	Adult	Bone Marrow	N/A	None
Q	Mouse	Adult	Bone Marrow	N/A	5 fluoro-uracil
QA	Human	Adult	Cartilage	Chondrosarcoma HTB-94 line	None
QB	Human	Adult	Bladder	Carcinoma 5637	None
QC	Human	Adult	Neural	Neuroepithelioma HTB-10 line	None
QD	Human	Fetal	Embryo	FHs173 We HTB-158	None
QE	Human	Fetal	Liver	N/A	None
QF	Human	Adult	Bladder	Carcinoma 5637	None
QG	Human	Adult	Neural	Neuroepithelioma HTB-10 line	None
QH	Human	Fetal	Embryo	FHs173 We HTB-158	None
QL	Human	Fetal	Heart	18 weeks gestation	None
QM	Human	Adult	Blood	Histiocytic lymphoma U937	None
QN	Human	Adult	Cartilage	Chondrosarcoma HTB-94 line	None
QO	Human	Adult	Brain	Corpus Callosum	None
QR	Human	Adult	Brain	Subthalamic Nucleus	None
QS	Human	Fetal	Whole Embryo	N/A	None
QT	Human	Fetal	Kidney	N/A	None
QU	Human	Adult	Blood	ChronicMyelogenousLeukemiaK562	None
QV	Human	Adult	Testis	Embryonal Carcinoma NT2D1	RA for 23 days
QX	Human	Adult	Bone	Ewing's Sarcoma RD-ES	None
QY	Human	Adult	Blood	Promyelocytic Leukemia HL-60	None
QZ	Human	Adult	Brain	Caudate Nucleus	None
RA	Human	Adult	Brain	Substantia Nigra	None
RB	Human	Adult	Kidney	293 embryonal carcinoma line	None

RC	Human	Adult	Kidney	293 embryonal carcinoma line	None
RD	Human	Adult	Kidney	293 embryonal carcinoma line	None
RE	Human	Adult	Brain	Amygdala	None
RF	Human	Adult	Bone Marrow	N/A	None
RG	Human	Adult	Blood	Promyelocytic Leukemia HL-60	None
RH	Human	Adult	Blood	Promyelocytic Leukemia HL-60	None
RI	Human	Adult	Brain	Subthalamic Nucleus	None
RJ	Human	Adult	Neural	Neuroepithelioma HTB-10 line	None
RK	Human	Adult	Tumor	Colorectal Adenocarcinoma SW480	None
RL	Human	Fetal	Kidney	293 cell line	None
RM	Human	N/A	Brain	Neuroectodermal Tumor CRL-2060	None
RN	Human	Adult	Blood	Lymphoblastic Leukemia MOLT-4	None
RP	Human	Adult	Brain	Thalamus	None
RQ	Human	Fetal	Kidney	N/A	None
RR	Human	Fetal	Kidney	N/A	None
RS	Human	Adult	Tumor	Colorectal Adenocarcinoma SW480	None
RT	Human	N/A	Brain	Neuroectodermal Tumor CRL-2060	None
RU	Human	Adult	Adrenal corte	Carcinoma SW-13	None
RV	Human	Adult	Brain	Cerebellum	None
RW	Human	N/A	Brain	Neuroectodermal Tumor CRL-2060	None
RX	Human	N/A	Nasal Epithel	squamous cell carcinoma CCL-30	None
RY	Human	Adult	Ovary	Ovarian Adenocarcinoma HTB-161	None
RZ	Human	Adult	Brain	Cerebellum	None
S	Human	Adult	Neural	Glioblastoma line TG-1	N/A
SA	Human	Fetal	Heart	18 weeks gestation	None
SB	Human	Fetal	Whole Embryo	N/A	None
SC	Human	Fetal	Kidney	293 cell line	None
SD	Human	Fetal	Kidney	N/A	None
SE	Human	Fetal	Kidney	N/A	None
SF	Human	Adult	Bladder	Carcinoma 5637	None
SG	Human	Fetal	Heart	18 weeks gestation	None
T	Mouse	Fetal	Brain	N/A	None
V	Mouse	Fetal	Brain	N/A	None
WA	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None
WC	Xenopus	11-12	Embryo	Fetal Vent. Mesoderm/Ectoderm	N/A
WF	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None
WG	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None

WH	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None
WI	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None
WJ	Xenopus	11-12	Embryo	Fetal Vent. Mesoderm/Ectoderm	N/A
WK	Xenopus	11-12	Embryo	Fetal Vent. Mesoderm/Ectoderm	N/A
WL	Xenopus	Fetal	Embryo	Dorsal Mesoderm	None
Z	Rat	Fetal	Pancreas	N/A	None

Table 3 Cell Type and Treatment Key:

RA: retinoic acid

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157,

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or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157,

SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267, SEQ ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271, SEQ ID NO:272, SEQ ID NO:273, SEQ ID NO:274, SEQ ID NO:275, SEQ ID NO:276, SEQ ID NO:277, SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, SEQ ID NO:284, SEQ ID NO:285, SEQ ID NO:286, SEQ ID NO:287, SEQ ID NO:288, SEQ ID NO:289, SEQ ID NO:290, SEQ ID NO:291, SEQ ID NO:292, SEQ ID NO:293, SEQ ID NO:294, SEQ ID NO:295, SEQ ID NO:296, SEQ ID NO:297, SEQ ID NO:298, SEQ ID NO:299, SEQ ID NO:300, SEQ ID NO:301, SEQ ID NO:302, SEQ ID NO:303, SEQ ID NO:304, SEQ ID NO:305, SEQ ID NO:306, SEQ ID NO:307, SEQ ID NO:308, SEQ ID NO:309, SEQ ID NO:310, SEQ ID NO:311, SEQ ID NO:312, SEQ ID NO:313, SEQ ID NO:314, SEQ ID NO:315, SEQ ID

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or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157,

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173

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or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.

6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.

## SEQUENCE LISTING

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gaagcaccgc ctcagagacc cacagactcg ag

152

&lt;210&gt; 5

&lt;211&gt; 254

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

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atgccctgtc ctcagaagga tgcctgtggc cctcggagag cacagtgtca ggcaacggaa 180
tcccagagcc gcaggtctac gcccgcctc gggccaccga ccgcctggcc gtgcccgcct 240
tcgcccagct cgag                                     254

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&lt;210&gt; 6

&lt;211&gt; 196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 6

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ttggagcttt atccctttgt cctagccaac catggccagc ccgctgcgct ccttgctgtt 120
cctgctggcc gtccctggcc tggcctgggc ggcgacccca aaacaaggcc cgcgaatgtt 180
gggtgctccg ctcgag                                     196

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&lt;210&gt; 7

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 7

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gaattcgcgg ccgcgtcgac ccatgctctc ctggatcggt gcaggacagt tgcgccgtgc 60
agagcggacc tcctcccagg tgaccattct ctgtaccttc ttcacggtgg tgtttgccct 120
ctacctggcc cctctcacca tctctctctc ctgcatcatg gagaagaaa acctcggccc 180
caagcctgct ctcattggcc accgcggggc ccccatgctg gtcacagagc acacgctcat 240
gtccttcctg aaggccctcg ag                                     262

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&lt;210&gt; 8

&lt;211&gt; 175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 8

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gaattcgcgg ccgcgtcgac ggaaagccaa attgccaaaa ctcaagtcac ctcagtacca 60
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ggccacaccc ccccaagagc cctcgatgga cagcctcacc cacccccacc tcgag 175

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&lt;210&gt; 9

&lt;211&gt; 238

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 9

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gaattcgcgg ccgcgtcgac ccgggtggcg gggcgcgcg gatggaggag tcttgggagg 60
ctgcgcccgg aggccaaagg ggggcagagc tcccaatgga gcccggtggga agcctggtcc 120
ccacgctgga gcagccgcag gtgcccgcga aggtgcgaca acctgaaggt cccgaaagca 180
ggccaaagtc ggccggggcc gtggagaagg cggcggggcg aggcctggag ccctcgag 238

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&lt;210&gt; 10

&lt;211&gt; 387

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 10

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gaattcgcgg ccgcgtcgac gaaggaagaa cccatgggac tcccaaggcg gctgctgctg 60
ctgctgttgc tggcgactac ctgtgtccca gcctcccagg gcctgcagtg catgcagtgt 120
gagagtaacc agagctgcct ggtagaggag tgtgctctgg gccaggacct ctgcaggact 180
accgtgcttc gggaatggca agatgataga gagctggagg tggtgacaag aggctgtgcc 240
cacagcgaaa agaccaacag gaccatgagt taccgcattg gctccatgat catcagcctg 300
acagagacgg tgtgcgccac aaacctctgc aacaggccca gaccggagc ccgaggccgt 360
gctttccccc agggccgcta cctcgag                                     387

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&lt;210&gt; 11

&lt;211&gt; 520

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 11

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ggaagcagcg gggctgcccg ggttacgctg gccaccgcga cctggctcctg tggcttcgac 120
cactagtcag caaggccccg gagaggccag cgaagagagg ggctcgttgg ctttacggag 180
acgcgcggag caccctcaag gtgccacacg ctgcctctgt cctgttctct acatcctggg 240
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atacctctgt acgccttatg gctggatgcg ttacagccat ttccatgtag atgtctgtgc 360
atacgttcac acgcaaaaact ctccgcagtt ttggagatct ccgtgttcag tcgtacctca 420
cgtgatcttg cactgccaac attgagaacc ctggccttag actatgcata tcccaaaact 480
aattatctgt ctcttctcta ttttcccaag acgactcgag                                     520

```

&lt;210&gt; 12

&lt;211&gt; 279

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 12

```

gaattcgcgg ccgcgtcgac gcctagaccg acacggagga ccatcgccat gcaccgtcta 60
ccgctgctgc tcctgtctgg ctgtgtctgc gcaggctcgg tcgcccctgc gcgcctcgtc 120
ccgaagcgcc tttcccaact tgggtgcttc tcctgggata actgtgatga aggaaaggac 180
cctgcagtga tcaaaagcct cagcatecaa cctgacccca ttgtggttcc tggagatgta 240
gtcgtcagcc ttgagggcaa gaccagcgtt ctctcagag                                     279

```

&lt;210&gt; 13

&lt;211&gt; 222

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 13

```

gaattcgcgg ccgcgtcgac cctaaaccgt cgattgaatt ctgaccatt ccaggagcct 60
cggatgaagag aggatatcca tctgtgtagc cgcttctcta tacgggattc cagctccatg 120
gcagcccgct tgctcctcct gggcctcctt ctctgtctgc tgcccctgcc cgtccctgcc 180
ccgtgccaca cagccgcacg ctgagagcgc aagcaactcg ag                                     222

```

&lt;210&gt; 14

&lt;211&gt; 473

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (11)

&lt;400&gt; 14

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gaattcgcg nccgctcgac atcggtttct ttatgtggga gaaggaagga gtaacataaa 60
acatgttttt atcactcaaa gtaagcaatg gaggtacaaa atattgtgca ttttaacagt 120
aatatttgaa gatttgtaga atattcacct ttaaaactag ttagtatgca tttataatgt 180
taccagaata tacaactaac aattcaacag tgatgttctt tgcatttggt gggagatgtg 240
tgatgttctt ggttttctgg tttggaatgg aacgtttata gccttgccctg taaaaatgtg 300
ccccagcact taatgagtga ccgtttgaa ccatatgtag tccattgggt gctaatagaga 360
gtagctgctg tgaacacagga ataaaatgtg tctgttcacg gaggtgctgt gtggatgcac 420
ctacaaggcc aactctctga tcagggtgag ggagagatgg aagaatgctc gag 473

```

&lt;210&gt; 15

&lt;211&gt; 228

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 15

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gaattcgcg cccgctcgac gccgggtatc aataaaggat ctttttaaga cagtttaaat 60
taggttttct gttacttaga acaaaatatt taaatgacac agaattctgaa gtggctatta 120
ctatttgatt tccactctta tatgcttctg tcattgcttc cttgcatggt ggtgctgctg 180
tgctgtgtgt cccagatatt caaggctgag gcaggaggat cactcgag 228

```

&lt;210&gt; 16

&lt;211&gt; 535

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (21)

&lt;400&gt; 16

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gaattcgcg cccgctcgaa ncatgctctt cagaaaagta tacaaatggc tggcaggccc 60
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cactctctc agtcaagtcc ccaagcgcca tcagcgtgc ctctagcat ctactccca 420
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gcttggtatg tacagaagcc tccctccaga accatctccc tccacgaggc tcgag 535

```

&lt;210&gt; 17

&lt;211&gt; 226

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 17

```

gaattcgcg cccgctcgac ggggatactt tcaggcactg tcaatggcag tgctagggaa 60
tataaatgca tgtgtgttat acatctacac atatatctac atccatagga ttttattagg 120
aggggttttg ttttgtttg aggcagggtc tcactctgtt gccagggtg aagtgcagtg 180
gtgcaatcac agctcactac tgcagcatca acctcctggg ctcgag 226

```

&lt;210&gt; 18

&lt;211&gt; 437

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 18

```

gaattcgccc aaagaggcct acacacacac acacacacac acacacacac acacacacac 60
acagaaacaa atggaggaga aagagatagt gtggtagcaa taaatagtgc ctggctttga 120

```

```

agtgaagac ttgggtttga atattgactc tgcctcttct tagttcccc atctgcttcc 180
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ttttctatac atacatacct gtgataaagt ttaatttata aattaggcac agtaagagat 420
taacgacctg cctcgag                                     437

```

&lt;210&gt; 19

&lt;211&gt; 378

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 19

```

gaattcggcc aaagaggcct acaccattca tctttcttgg agacgttaaa actatccact 60
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gtggcttcgg gcagtcagct cctgaccccc cctaaaaaga aagggcaggg cctgcagtgg 360
acagcagcca gactcgag                                     378

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&lt;210&gt; 20

&lt;211&gt; 338

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 20

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cagatatgac attgtgcatg cagtgggaga gcgtgtgcac agcaggacca tctcaccggc 180
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gcagctgtcc caggaggcca cccctgctga cctggagtgt ggtttggaag gtcaggcggg 300
gtccgtccaa agggccagtt tgatttggga agctcgag                                     338

```

&lt;210&gt; 21

&lt;211&gt; 559

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 21

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gaattcggcc aaagaggcct agctaaatat tatgactggc tatagttaaa ataataataa 60
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gatagttttg tttcaggttt tttacttgtt ttctcttttg tctttggaag gtctgtttgt 540
ttcaagttag catctcgag                                     559

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&lt;210&gt; 22

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 22

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gaattcggcc aaagaggcct agttagaatg taaggatat cattctaaag atagagtaaa 60
aagaaaacaa aacaaaaagt tattaataat gttgtccggg ttactttaac ttagttttgc 120
atagttctag tgcagctgaa attgaaaagt tatttccctt tagctgtgtt attatagagc 180

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agaaattctg tttttaaaaa ttagcctaag atatacttgt ttttgtaaag aaaaatattt 240  
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<212> DNA  
<213> Homo sapiens

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atcagtatca gcagcgtcgc cagcaggaga atatgcagcg ccagagccga ggagaacccc 180  
cgctccctga ggaggacctg tccaaactct tcaaaccacc acagccgcct gccaggatgg 240  
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cccaaaaact cgag 314

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<212> DNA  
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agcacatgag catctgcggg ctctatcctc ttatagtagt tcttctttgt ctcaataatc 180  
tcaaagccaa acttctctgta gaagtcaatt gccgactcat tgctgatctg gacatgcaga 240  
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<210> 25  
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agaaaaataa aatgtgtccc aaaagaagtc cgtacctcga g 161

<210> 26  
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<212> DNA  
<213> Homo sapiens

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catccacata ccaccttccc agaccccata gctcacaggc ccccataggt catcagctct 180  
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tcacctcaga ttcttggaag aatgtgattc agtccacagt agcctttcag agactgtata 420  
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cctgtcctcc ctgtgccctc tgtgtgcggg gtcctttccc atctcctgct ggcttacatg 540  
gcttcaagct ccacctcaaa gcgtcctgca ccaggcattg ccagcgatct ccccttcaca 600  
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tgtgcactcg ag 672

<210> 27  
<211> 144  
<212> DNA

<213> Homo sapiens

<400> 27

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gaattcgcgg cgcgctcgac aagagccact ggccctgtaat tgtttgatat atttgtaa 60
actctttgta taatgtcagg ttcaaggaca cactgttcca caatttcccg taagtgggg 120
ttttccattg cagctaccct cgag 144
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<210> 28

<211> 250

<212> DNA

<213> Homo sapiens

<400> 28

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ccttctcttc ctctctctcc agttagggtg gagcttttct aattcttaga atataccaag 120
tttactcctt accttaaggc cttcacattt gttgtctcaa cctgaatgct cttacattag 180
atacagtatg gtttgcctct ttatttcttt catatttctc ttcataatac ttgtcccccag 240
aaagctcgag 250
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<210> 29

<211> 277

<212> DNA

<213> Homo sapiens

<400> 29

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accattgtct ttttcagctg tgttttagcac atcaaaatca gtttctacac cacagtcaac 180
aggttctgct gctactatga cagcattggc agcaacaaaa acttctagtt tggctgatga 240
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<210> 30

<211> 258

<212> DNA

<213> Homo sapiens

<400> 30

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gaattcgcgg cgcgctcgac tgtgaatggt aatattcctg aaaagactac agcactgaat 60
aatatggatg gcaagaatgt taaagcaaaa ttggatcatg ttcaatttgc agaatttaag 120
attgacatgg atttcaaatt tgaaaatagc aacaaagatt taaaggaaga attgtgccct 180
ggaaatctaa gtctagttga tacaaggcaa cacagttcag cacattcaaa tcaagataaa 240
aaagacgatg agctcgag 258
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<210> 31

<211> 308

<212> DNA

<213> Homo sapiens

<400> 31

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gaattcgcgg cgcgctcgac gtctgcagtc caattaattt ctgaagtatt tctaaagaga 60
taaaattcca aactgtaaaa aggcaagttt taattccgtg ataaagtaca tttatgtgaa 120
atatttcatt ccttagtaat tcttgaggcg actgtgaaag gaggatggaa gaaatccagt 180
acttttactc tttacattgg acaagttatt tgtggagata attgctcaat ttcagtatga 240
gtgcagtgat tttgatgcag ttgtgttttt cttttttatt ctttttttga gaaggctctc 300
agctcgag 308
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<210> 32

<211> 338

<212> DNA

<213> Homo sapiens

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 ggagaatttaa gagtgtcatt ccagtgtatc tattgggggtc ttgtttattt ttgggttgct 180  
 atcttgttgt ggtaaacatg gatgagagta tgtggacaaa agaatatgaa ggaaacgtga 240  
 gttgggagat caaattgagt gatccgacgc acgtttcaga tatgactgta accacgcttg 300  
 caaacttaat accctttact ctgtccctgt tactcgag 338

<210> 33  
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 <212> DNA  
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 tggtaaaatt gattgaaaaa acgttatggg ccaggcgcag tggctcatgc ctgtaatctc 180  
 aacagtttgg gagggccaaag caagcggatc actcgag 217

<210> 34  
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 <212> DNA  
 <213> Homo sapiens

<400> 34  
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 ctaaggacag agctgctaata aaggaccaag aactgattga aaatgaaagt tatagaacaa 180  
 aaaacaacca gaccatgaaa catgatgcta aaatgagata cctgagtgat gatgtggatg 240  
 acatttctct gtcgtctttg tcatcttctg ataagaatga ttttaagtga gacttttagt 300  
 atgattttat agatatagaa gactccaaca gaactagaat aactccagag gaaatgtctc 360  
 tcaaagaaga gaaacatgaa aatggggcac tcgag 395

<210> 35  
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 <212> DNA  
 <213> Homo sapiens

<400> 35  
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 taatactagg gaaatttagag catgtttgtg gacagaagga gaacaatcag aagacaggaa 120  
 gagaaaatag aaaataaaat agaagcacct aaaccgtcga ttgaattctg gcctgcactc 180  
 gag 183

<210> 36  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 36  
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 ttttcatcaa attgggcaag tttttagcca ttatttctcc taaatttttc tgcttttttcg 120  
 tctgtacctt tggttactcc cattacacat atgtcagtat atttaattgt atcccatact 180  
 tctctcatgc tctgttcatt tttctttatt cttttttctc tctcttcttc agatggcata 240  
 aactcgag 248

<210> 37  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 37

gaattcgcgg ccgcgtcgac cgagtcgggt gacaaagtga gacctgtgt ctaaaaagag 60  
 agagagaaaa aaagctaagg ctattttcag gttaggtcag gcttagtaac aaaaactttt 120  
 tgtgaaatgc ttcgatcatt gtttgccttg ctctaattt cccttaaaac ctcccggatc 180  
 agacagggtg tctttgaaga tgagttcaca gcctccctcg ag 222

&lt;210&gt; 38

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 38

gaattcgcgg ccgcgtcgac gtctggcctt ctttaatttct ccatctgtac ccttttttag 60  
 gtgagctcag atctgacctg tttttctgag ctgcagactt gtttatctaa ttgtctaatt 120  
 gacatccact tggatgtctg atagttatcc cagatctaac attggccaaa tcgctctttt 180  
 ttccccccaa atctcccttg atttctcctt taaaaccccc ttctcaaagc tatgtctaaa 240  
 ctaaaattct taggagctct cgag 264

&lt;210&gt; 39

&lt;211&gt; 226

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 39

gaattcgcgg ccgcgtcgac cttacataaa ttccatact ccttttttat tctgacgtta 60  
 tacaatgaag aaagcaaatg tgaaattgac atgtcatatg tgccctgtta tgtatgccta 120  
 catacattgg gtatgtgaga ttgtggcggg ggggtggttc cctagctttt tgtctataat 180  
 ttctgatttt attgcaataa atttaaacca caacacagag ctcgag 226

&lt;210&gt; 40

&lt;211&gt; 257

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 40

gaattcgcgg ccgcgtcgac ctagtattatg agtttattct tctgctcgtt tttggagttt 60  
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 cttggtgtag acgttttagtg ctgtctagtc ctcttaaacac tgtgtttgtc gcaaccaga 180  
 ggtttttgcc tgttttcatt ttttaacaaa tgattttgtt ttctgtcata attttcttgt 240  
 ttacccaaaa cctcgag 257

&lt;210&gt; 41

&lt;211&gt; 220

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 41

gaattcgcgg ccgcgtcgac tgcaagtaag gactatggaa aatttcctaaa ccagattgga 60  
 tcgttcagaa gccattcttc tgttgattct ttacatttc ctcccattag ccgaaagaat 120  
 tgagagccaa cctttccaaa tgccctgtc cccgttagca ggcaccaaag agctcatttc 180  
 atttctgtct gccagcttaa tactcaccag ggcactcgag 220

&lt;210&gt; 42

&lt;211&gt; 289

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 42

gaattcgcgg ccgcgtcgac gttactttgg caacaagttc ttttaccctt acccgtggta 60  
 tttgaaaaaa atcaaggtaa ctgtctgaat actttaatat cagcttggtt tgtgaattct 120

ctgaatactg tcaacactct tatctaagtt tgcctttatg atgcagtggc agcattttga 180  
 attacttttc aaagaatact gttcatatgc attgtttttg tgtttcaaac taaatacagg 240  
 cagttttgtg ccagctgtga tattgtgcat accatatgga cacctcgag 289

<210> 43  
 <211> 252  
 <212> DNA  
 <213> Homo sapiens

<400> 43  
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 aattttatata aatatttttg tagtagttaa taggtatatt ggtagtaatt tggtagtttg 120  
 gtacatttgg tagtaattaa taggtacatt ttctgcctgt gtagattgtt taagaaaaca 180  
 gtgataatta tgcaaagaaa tgttcaaata actgtttggg tagtgatttt ggcttattgg 240  
 gtcactctcg ag 252

<210> 44  
 <211> 162  
 <212> DNA  
 <213> Homo sapiens

<400> 44  
 gaattcgcg cgcgctcgac ctaagttcca ctttttattt agattccact agttttccca 60  
 ttaatgtcca ttctgttctt agaatccaat ctttttcctg tatgctatgg attatcagac 120  
 cctcacttgg ggttctctt acatcaccaa gatgtgctcg ag 162

<210> 45  
 <211> 281  
 <212> DNA  
 <213> Homo sapiens

<400> 45  
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 ttctgttttg ggctcatgt ccagcaagtg atagtctcat taggagcgtg gtagaacata 120  
 gcgaagcctg gcatttgggt cctccctctg tctcccaaag tgctggggatt acaggcgtga 180  
 gccactgcgc ctgggtctgtt tcctcccgta tgtgtgccac ataccgtgag ccattcagat 240  
 ggatgaaagc aaacttcctt ataaaaggcc agaagctcga g 281

<210> 46  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<400> 46  
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 gctcatcatt gtatctccag agtccaacac aatgccacgc attggagtaa ggtattttaa 120  
 tatttttaaaa aaattttttt tgagagacag ggtctccctc tgtaacccag gctgggggtgc 180  
 agtggcaccc tcatggctca ctctaacagc ctctggggct caagcagtca gaactacagg 240  
 tatgtgctac cacaccgagc tcgag 265

<210> 47  
 <211> 336  
 <212> DNA  
 <213> Homo sapiens

<400> 47  
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 taatcagagt aaatgcattt ctggagttgt ttctgtgatg taaattatga tcattattta 120  
 agaagtcaaa tcctgatctt gaagtgcctt ttatacagct ctctaataat tacaaatata 180  
 cgaaagtcac ttcttgggaa acaagtggag tatgccaaat tttatatgaa tttttcagat 240

tatctaagct tccaggtttt ataattagaa gataatgaga gaattaatgg ggtttatatt 300  
 tacattatct ctcaactatg tagcccgctt ctcgag 336

<210> 48  
 <211> 703  
 <212> DNA  
 <213> Homo sapiens

<400> 48  
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 agaaatcatg tgcaaattgg aaagcattaa agagatcagg aacaagaccc tgcagatgga 120  
 gaagatcaag gctcgtttga aggctgagtt tgaggcactt gaggcagagg aaaggcacct 180  
 gaaggaatac aagcaggaga tggaccttct gctacaggag aagatggccc atgtggagga 240  
 actccgactg atccacgctg acatcaatgt gatggaaaac actatcaaac aatctgagaa 300  
 tgacctaaac aagctgctag agtctacaag gaggtgcat gatgagtata agccactgaa 360  
 agaacatgtg gatgccctgc gcatgactct gggcctgcag aggtccctg acttgtgtga 420  
 agaagaggag aagctttcct tggattactt tgagaagcag aaagcagaat ggcagacaga 480  
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 ccaagtggct aggaagcagg atactcggca gacggccacc ttcaggcagc agccccacc 600  
 tatgaaggcc tgcttgtcat gtcaccagca aattcaccgg aatgcaccta tatgccctct 660  
 ttgcaaggcc aagagtcggt cccggaacct caataaactc gag 703

<210> 49  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

<400> 49  
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 ggtagccctg cgtgcccggt gcctggcaca tgcggaagcg gcgctgccag cctgtgtcac 180  
 acgtcttaga gcacaggctc cacgcattcc atggccccca cttgtatca gtggccgggc 240  
 actcgag 247

<210> 50  
 <211> 290  
 <212> DNA  
 <213> Homo sapiens

<400> 50  
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 gcaaaagaat taacattttgt gatattttact tgcaaaacttt actgaagcca tattcattat 120  
 ctcccttgtc accaaggctg ttgaccttaa ataaacatta agttgatttt gcacaacact 180  
 gtatttgtgt gtgtgcatgt gcctgttttt gtgtgtgtat gtttgtggga aataattatg 240  
 tttgtttccg catatattca tttttaatgc attctgtaac ttttctcgag 290

<210> 51  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
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 tggaggctgt ggccgttttg ttttcttggc taaaatcggg ggagtgaaggc gggccggcgc 120  
 ggcgcgacac cgggctccgg aacctactga cgacggggct ggactgacct gaaaaaaatg 180  
 tctggatttc tagagggctt gagatgtcga gaatgcattg actgggggga aaagcgcaat 240  
 actattgctt ccattgctgc tgggtacta ttttttacag gctgggtgat tatcatagat 300  
 gcagctgtta tttatccac catgaaagat ttcaaccact cataccatgc ctgtggtgtt 360  
 atagcaacca tagccttccct aatgattaat gcagtatcga atggacaagt cctcgag 417

<210> 52  
 <211> 379  
 <212> DNA  
 <213> Homo sapiens

<400> 52  
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 cttttttatc atcgcacaaag cccctgaacc atatattgtt atcactggat ttgaagtcac 120  
 cgttatctta tttttcatac ttttatatgt actcagactt gatcgattaa tgaagtgggt 180  
 attttggcct ttgcttgata ttatcaactc actggtaaca acagtattca tgctcatcgt 240  
 atctgtgttg gcaactgatac cagaaaccac aacattgaca gttgggtggag ggggtgttgc 300  
 acttgtgaca gcagtatgct gtcttgccga cggggccctt atttaccgga agcttctgtt 360  
 caatcccagc ggactcgag 379

<210> 53  
 <211> 105  
 <212> DNA  
 <213> Homo sapiens

<400> 53  
 gaattcgcgg ccgcgctcgac aagaagcgta tggactacta tgactctgaa caccatgaag 60  
 actttgaatt tatctcagga acacgaatgc gcaaactcgc tcgag 105

<210> 54  
 <211> 237  
 <212> DNA  
 <213> Homo sapiens

<400> 54  
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 ccagctgttg tcaggtacag tgctaagcac tttaattaca ctgttaagtc accaggacag 120  
 aaactccccc acaccagctc tgtaataggg gtgagtgttg gacataagca gggagttgac 180  
 aagaagccaa gactaggctg ggcacagtgg ctcacgctg taattccagc cctcgag 237

<210> 55  
 <211> 220  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
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 ctgttttttt ttaataaaag caatttggtc taataattat ttctaatca tcttaaaata 120  
 cgctgtcatt aacggcagag aaagctcttt atttcctttt gaattttaat actgggtaga 180  
 aatataattht acaatgaaag tcagcaggaa agaactcgag 220

<210> 56  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

<400> 56  
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 agaaataaatt tctgaaatga accagatata tgaggataat gataaagatg cacatgtcca 120  
 agaaagctat acaaaagatc ttgattttta agtaataaaa tctaaacaaa aacttgaatg 180  
 ccaagacatt atcaataaac actatatgga agtcaacagt aatgaaaagg aaagttgtaa 240  
 tctcgag 247

<210> 57  
 <211> 229  
 <212> DNA

<213> Homo sapiens

<400> 57

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gaattcgcgg ccgcgctcgac gtgtgttggg aaacactgtg ggctcaatga aaaacccctt 60
tcggcccagt cctttgcctc cacattccag cttggcgccc tcagccacac cactctggat 120
gagttccaag atcttgttgt actgtttctt atcaatctgg ggacctgct cagtgggtgg 180
gtcaaaggga ctccccacta cgcgcctctt ggcccgtcc acactcgag 229
```

<210> 58

<211> 146

<212> DNA

<213> Homo sapiens

<400> 58

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gaattcgcgg ccgcgctcgac tgaggagag attggtcagt ctgttcaaaa ttacagatag 60
gaagaagagt aagtcttgtt gttctcttgc acagtaggtt aactatggtt aacaatattg 120
catatttcaa aacagctggc ctcgag 146
```

<210> 59

<211> 139

<212> DNA

<213> Homo sapiens

<400> 59

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gaattcgcgg ccgcgctcgac cctgcacctt gtctgtctga caaacacctt cttatttgat 60
gctattcaag cctcacctcc tcttactcgg cactccttct tactttctat ttccagatga 120
aaataaccac ttctctgag 139
```

<210> 60

<211> 325

<212> DNA

<213> Homo sapiens

<400> 60

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gaattcgcgg ccgcgctcgac cctttccggt tgatttgtca ctgcttcaat caataacagc 60
cgctccagag tcagtagtca atgaatatat gaccaaatat caccaggact gttactcaat 120
gtgtgccgag cccttgccca tgctgggctc ccgtgtatct ggacactgta acgtgtgctg 180
tgtttgctcc ccttcccctt ccttctttgc cctttacttg tctttctggg gttttctgt 240
ttgggtttgg ttgggttttt atttctccct ttgtgttcca aacatgaggt tctctctact 300
ggtctcttta accatggtgc tcgag 325
```

<210> 61

<211> 241

<212> DNA

<213> Homo sapiens

<400> 61

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gaattcgcgg ccgcgctcgac tcttattcct tcttgaaaat ttttaagtgt atgggtttat 60
atagttcagt tctttgagat ttttgaaaag agtattttca gtaataaacg tgccatctct 120
atctcttaaa cattttattac aacaattgtt ttaaaataga aaaaataaaa tgcttctatt 180
ttaccttttt ttcatctcag aagcattatt ctgtttatta acagtgtccc atctctctga 240
g 241
```

<210> 62

<211> 392

<212> DNA

<213> Homo sapiens

<400> 62

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gaattcgcgg ccgcgctcgac gcacgtggca ctggaggagc ggcgttttgc acccccaggc 60
ttcagggaag ttctcaatag aaaacccatt agttgtctca tatgactggt attaatctg 120
```

```

acttaaaaaa aaaatcaagc cagaaacagt gtgttgagca agaaaggaaa aaagattcct 180
tattaaaaagt tcaaacataa acagaaggct caggacctcc ttgactacct ctcttgccac 240
gtggcccagg agaaaccatg gctggcagtt taacagccac cctcctgctt ctgctctgtg 300
cattttgtgg atgcacatcc acgtttttct tttcttttga gacagggtct cactctgttg 360
cccaggctgg aatgcaatgg cgcatctcg ag 392

```

&lt;210&gt; 63

&lt;211&gt; 293

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

```

gaattcgcgg ccgcgtcgac aggtccagtt ttctgtatg cattggatgg aagtgcagtt 60
agaaagcagtt gttctcacat cattttataa tgctgaggat gaatcaaatc ttctcttacc 120
taaaactacct acactgccaa aaaactatag caacacctca aaaatattta gtgaagaaaa 180
ttctgatgaa attattaagc tcttgggaga cgtcaggctt aatattctcg tccttggagg 240
aagctctgga tttattgagc tttatgctta tggaatgttt aaaattgctc gag 293

```

&lt;210&gt; 64

&lt;211&gt; 449

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 64

```

gaattcgcgg ccgcgtcgac ccccttccaa aagcaaaaag aagcctcgaa agtgaaatgt 60
atctggaagg tctgggcaga tcacacattg cttccccag tccttgcctt gacagaatgc 120
ccctaccatc acccactgag tctaggcaca gcctctccat cctcctgttc tccagccctc 180
cggagcagaa agtgggtctt tatcgaagac aaactgaact tcaagacaaa agtgaatttt 240
cagatgtgga caagctagct ttttaaggata atgaggagtt tgaatcatct tttgaatctg 300
cagggaacat gccaaaggcag ttggaaatgg gcgggctttc tcctgccggg gatattgtctc 360
atgtggagcg tgctgcagct gctgtgcccc tctcatatca gcacccaagt gtagatcaga 420
aacaatttga agaacaataa gaactcgag 449

```

&lt;210&gt; 65

&lt;211&gt; 247

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 65

```

gaattcgcgg ccgcgtcgac ggggctggag tataatagga gcggagagat agaaaagaga 60
ggcaaaggaa gatcacagcc atcacaaagc aatctaggca gaaagtgata ggaaaaaaag 120
gagaaactat tcattctcaa ctattgctgg tatacacaaa cctctgaaaa tagccaatta 180
gtgttagatg ttctatcagg cgtggggaat ggggatgggt acaaaattca tctctccagt 240
tctcgag 247

```

&lt;210&gt; 66

&lt;211&gt; 227

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 66

```

gaattcgcgg ccgcgtcgac cgcggccgcg tcgacctgct ggcagggttt tttgttttta 60
tttgtttgct tattttttaa ttaactgttt tgagctttga atacttaagg cttttagagg 120
agaacccaat tttcaattat gttggctttt tataaagctt gagttatgta agattttaat 180
aaaagtttgc taccaagatg attgccttat tgaatagatc actcgag 227

```

&lt;210&gt; 67

&lt;211&gt; 384

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 67

```

gaattcgcgg ccgcgtcgac tgacattcct gttggagact tacatccagg ggaacagctg 60
gaaaaaatgt tgtatgttcg ctgtggaaca ggggggtcca gaatgtttct tgtatatgtt 120
tcttacctga taaatacaac cgttgaagaa aaagaaattg tttgcaagtg tcacaaggat 180
gaaactgtaa caattgaaac agtctttcca tttgatgttg cgggttaaatt tgtttctacc 240
aagtttgagc acctggaag gggttatgct gacatcccc tctgttgat gacggacctc 300
ttaagtgcct caccctgggc cctcactatt gttccagtg agtccacct tgcctcatcc 360
atgaccacag tggaccagct cgag 384

```

&lt;210&gt; 68

&lt;211&gt; 302

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 68

```

gaattcgcgg ccgcgtcgac ctaaaccgtc gattgaattc tagacctctc acccaagctc 60
ctctctcctt gcagtgaaga ccctcccctc cagraacctt ttttctctgt gaaaaccctt 120
caaccctttt tcaggacctc tctcaacccc atcttcccat ttgtgtccca ccagtccctt 180
ccccaacctg ccaatatttc aataacccca cgcccaccag ttgtgcccgc ttttctgccc 240
caatgcacat accctggaac ctgggtttctc tccttcgttg gggcccaacc cccctcctcg 300
ag 302

```

&lt;210&gt; 69

&lt;211&gt; 184

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 69

```

gaattcgcgg ccgcgtcgac gatacaatct gcaaatgata aaaatttcga cgatgaagat 60
tctgtggatg gtaacagacc ttctctgct agttctacat catccaaggc tccaccaagt 120
tctcggagaa acgttggat gggaaccacc cgccggcttg gttcatccac ccttggaact 180
cgag 184

```

&lt;210&gt; 70

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 70

```

gaattcgcgg ccgcgtcgac caaaaacaaa aaaaacaaa aaaactttgc ccacttcttt 60
ttatatgtgt gtgtcttctg aggttatcac ctgaagggat atttatggac tgaagagttg 120
ttagtattat ttgtgtatct ttactttgt tagaatacat acttatcttc taatgaaatt 180
attccagaaa actttaaag agtcatttaa attgcctgtt agtatagtta taaaattgac 240
agagcagtg caaaaactcg ag 262

```

&lt;210&gt; 71

&lt;211&gt; 166

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 71

```

gaattcgcgg ccgcgtcgac aaaggatgga caacaaaaac aaatgcctat gtgtgataac 60
catgatgatg gtgaaactgc agcaatcatt ttatgcaatg tctgtggaaa tttatgtaca 120
gactgtgaca gattccttca ccttcacga agaaccacaa ctcgag 166

```

&lt;210&gt; 72

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 72

```

gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt gtaagccaaa ctgtcgtaa 60
gtcggggact gtctgtatac cctaaagtga tttccttacc cttcccaaaa cgcactcttc 120
ctatatattc tgatttaaga aataggagta ataccactta ccttacagct tcctgggtca 180
ctctctcatt gagttaacca atagatcttt gaattcctaa cctttttcct atccatcctt 240
cccttttcag tgttctgttc ctatgctagt tcatgccttc ttacatctct tgcctgaggtt 300
tttccatatt ctcgtaactt gtctccttgc gtctactctt cagtctgtct tccttaccac 360
cagactcgag                                     370

```

&lt;210&gt; 73

&lt;211&gt; 287

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 73

```

gaattcgcg cgcgctcgac ggcaccaagc ggaaaaataa ctccaacctg ggcaacagag 60
caagactctg tctaaaaaaa aaaaaaagtt aatggcattt ctatccctgt cttgctaact 120
agaaacctgg gaggagactc aagactgttc tcttcagtea gtttcccatg cctattttat 180
atcccactag tttattttat gagctatgtc tcaaaatcat actcttctct ctttgtctct 240
cttacttgat cattggtcag gcctgtacct tcagccaccc tctcgag 287

```

&lt;210&gt; 74

&lt;211&gt; 212

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 74

```

gaattcgcg cgcgctcgac ccaatgagga aggcaaagaa aatcgagacc gggacagaga 60
ctatagtcgg cgacgtggtg ggcaccaag acgggggaga ggtgccagcc gtggacgaga 120
gtttcgaggt caggaaaatg gattggatgg caccaagagt ggagggcctt ctggaagagg 180
aacagaaaga ggcagaagga taccggctcg ag 212

```

&lt;210&gt; 75

&lt;211&gt; 314

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 75

```

gaattcgcg cgcgctcgac acccctcccc catccaactt tcaggttacc tgaaaaataa 60
gactagttaa aaattgacaa gttgtcggga aattttgcag caataaaggg ggcaagtgga 120
aggcagagca ctttctagat cttgactttt ccatggccca tgtaagatca ctaaactgtt 180
catttatttt tcgacagtta gcacctgctg ttgatataa ctaaaatggcg ggaacatgtt 240
ttttttgttg tttgtttgtt ttgttttgtt ttgtttttcg agacggagtc tcgctctgtc 300
cccaagctct cgag 314

```

&lt;210&gt; 76

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 76

```

gaattcgcg cgcgctcgac aagtgagcac acgaaatcaa agcatgaaag cagaaaagaa 60
aagaggaaaa actatccaga atggcaggga attgtttgag tcttcccttt gtggagacct 120
tttaaatgaa gtacaggcaa gtgagcacac gaaatcaaag catgaaagca gaaaagaaaa 180
gagggaaaaa agcaacaagc atgactcacc aagatctgaa gagcgcaagt cacacaaaat 240
ccccaatta gaaccagagg acctcgag 268

```

&lt;210&gt; 77

&lt;211&gt; 295

&lt;212&gt; DNA

<213> Homo sapiens

<400> 77

```
gaattcgcgg ccgcgtcgac aattttaagt raagtcccat atgaaggctc aaaagagcgg 60
taaagaacaa cagcttgaca ttatgaacaa gcagtaccaa caacttgaaa gtcgtttgga 120
tgagatactt tctagaattg ctaaggaaac ggaagagatt aaggaccttg aagaacagct 180
tactgaaggg cagatagcag caaatgaagc cctgaagaag gatttagaag gtgttatcag 240
tgggttgcaa gaatacctgg ggaccattaa aggccaggca gctcaggccc tcgag 295
```

<210> 78

<211> 148

<212> DNA

<213> Homo sapiens

<400> 78

```
gaattcgcgg ccgcgtcgac acatactttg cattttccac tggtactttg ataccatttt 60
tagttgcgaa acacgtggca tgttctcgga aatgaatagc tttcaagata gtggagagat 120
tcctaacggt gtcaaggctg agctcgag 148
```

<210> 79

<211> 224

<212> DNA

<213> Homo sapiens

<400> 79

```
gaattcgcgg ccgcgtcgac ataaatttgc tgcggctgga ctcaaggaa atctcaatgt 60
ctttctctct gaccttgga gccacggga gccctttggg gcaagtcagc ctgtcagtct 120
gtgggtgctg tagcggggga ggcactact catccgttc caggggaaac gtctccccct 180
ccagactggt gtcactatca ttctctctt cctctactct cgag 224
```

<210> 80

<211> 288

<212> DNA

<213> Homo sapiens

<400> 80

```
gaattcgcgg ccgcgtcgac gtttcaaata aatgcttaaa gtttaattatt acttgaaggc 60
aagagaagac aaagaacccc caaaatatta gaaaagatta taaaagacat tataagggtg 120
gaattcttac tctttgaatt ccataattgt tttattattt actaatgttc taatattaag 180
ttcatgataa gtcacacaca tatgttttct ccacactctt tccacctatc agtttttcta 240
acataattatt gttttaaaat tcttaattct attacagcaa tcctcgag 288
```

<210> 81

<211> 251

<212> DNA

<213> Homo sapiens

<400> 81

```
gaattcgcgg ccgcgtcgac tttgaagggt gttgtgtgtt gttgattctt agaggcagat 60
atctgactac gttgtgttta tacttttagct atatgaatgt ttacctattg aaaatactgt 120
tttattaaaa attactttgt tccttatacc ttaggagata aatgtacatt ttaaaagtgt 180
tcctcagtca ggtgagggtg cttatgcccg taagtccaac acttggggag gccgaaccag 240
gaggactcga g 251
```

<210> 82

<211> 498

<212> DNA

<213> Homo sapiens

<400> 82

```

gaattcgcgg ccgcgtcgac gtccatggct gaggagaaga ggaagcgaga ggaagaggag 60
aaggcacagc aggtggccag gaggcaacag gagcgaaagg ctgtgacaaa gaggagccct 120
gaggctccac agccagtgtat agctatggaa gagccagcag taccggcccc actgccaag 180
aaaatctcct cagaggcctg gcctccagtt gggactcctc catcatcaga gtctgagcct 240
gtgagaacca gcagggaaca cccagtgtcc ttgctgcccc ttaggcagac tctcccgag 300
gacaatgagg agccccagc tctgccccct aggactcttg aaggcctcca ggtggaggaa 360
gagccagtgt acgaagcaga gcctgagcct gagcccgagc ctgagcccga gcctgagaat 420
gactatgagg acgttgagga gatggacagg catgagcagg aggatgaacc agagggggag 480
tatgaggagg tgctcgag                                     498

```

&lt;210&gt; 83

&lt;211&gt; 277

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 83

```

gaattcgcgg ccgcgtcgac cttcagttca tcttacatat ggccaagttt gcttcctaaa 60
agttcagatg ttgtcatatt gctataatgc tcaagactct tccactcccc actgcctaag 120
gaattcagta cagacttctc agggcgcttt gaacacaaat ccaaccactc tacgcagccc 180
tatctccac tgctccctcc acaagcttca ttctttatta agatggggac tatctgggat 240
gcagatagcc agccacatct tccctctgac cctcgag                                     277

```

&lt;210&gt; 84

&lt;211&gt; 526

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 84

```

gaattcgcgg ccgcgtcgac ggatggtgaa cgggcaggag catctagtga ttgatggctt 60
ctgggtgttt ttaacgagag tttgaacaaa gactcagaaa tggtttttaa aataacagtc 120
ccatgtggcc cacatagaaa atattgggat attttaaggt gtggattcac tttccatat 180
ttaaacactt gtttctactt ggtgaaatac acaggtgaca agtcaacttc aggaataatg 240
gtttttttta gaagatggga gttgggaatt tcttatattt tcctctcact tcttaaaacc 300
acctttgtgc cctgtcttta cattaggaaa aatggaaaag tgattaaaca cggccgttag 360
gagcctaaaa tctaggtcag agtcccgtat gaaagaaatc agataagttg agagagggcg 420
tgtgcagggt ggaaatgggt gcgtccatct ctgctggggc gtcgatgcca cctggctgga 480
caggtggagc ctggaaggta gggaggctcg gaacatgaag ctcgag                                     526

```

&lt;210&gt; 85

&lt;211&gt; 307

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 85

```

gaattcgcgg ccgcgtcgac gtaaccccg ctcctctcct cccccaccg ctggaaacca 60
cgactccgcc gccacacctc gcatttgact gctccaagta cctcaggaaa tgacctcatg 120
cggctctcgc acgttcgcgt ccattctgtt tatttccagc gtttggcccc tgggagcgat 180
gagcgcacct gttcagcccc tgctttcagt tctttcaggg agttctcacg tggctctcag 240
aggttccac acgttgcttc ccacagcagc tgcaccattg tacattcaa cagcaacaga 300
gtctgag                                     307

```

&lt;210&gt; 86

&lt;211&gt; 194

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 86

```

gaattcgcgg ccgcgtcgac cgagggtattg gtgtaggaag agaaaaagag attgatgggg 60
taaatttgac tcacacatat atcatcaact cattttcaag agatttgctg tcatcaattg 120
attttcaaca gagacacgag agctagtcca tgaggaaagg aaagcatata acaaatttgc 180

```

tgggactact cgag

194

&lt;210&gt; 87

&lt;211&gt; 223

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 87

gaattcgcg cgcgctcgac atttggttct ttcctactca gaactactca gaaacaacta 60  
 tatatttcag gttatttgag cacagtgaac gcagagtact atggttggtc aacacaggcc 120  
 tctcagatac aaggggaaca caattacata ttgggctaga ttttggccag ttcaaaatag 180  
 tatttggtat caacttactt tgttacttgc atcaatcctc gag 223

&lt;210&gt; 88

&lt;211&gt; 265

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 88

gaattcgcg cgcgctcgac gacaacatca aaagcaactg atgactctgg aaaacaagct 60  
 aaaggctgag atggatgaac atcgctcag attagacaaa gatcttgaaa ctacagcgtaa 120  
 caattttgct gcagaaatgg agaaacttat caagaacac caggctgcca tggagaaaga 180  
 ggctaaagt atgtccaatg aagagaaaaa atttcagcaa catattcagg cccaacagaa 240  
 gaaagaactg aatagtttct tcgag 265

&lt;210&gt; 89

&lt;211&gt; 176

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 89

gaattcgcg cgcgctcgac aaattggaaa ctgtagaagt gttaatgtgt cctatggact 60  
 caatagcaga gtttattttt gtttttaatg gcaaggcttc tagagtcaat gattgtatga 120  
 gtttgctact ctggctgtgc ttacagcttc atccaagtac aaaggaagaa ctcgag 176

&lt;210&gt; 90

&lt;211&gt; 196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 90

gaattcgcg cgcgctcgac ggtgtgttat tgtttttatt ggctgtacct ggtagaattg 60  
 aaaaatcagc atttctattg tagcctacta atttcagtga aatatttctt tagaaatata 120  
 aaatctggaa ctttccatca ttatgcctcc ccaaaataat agaggacttt acacacagat 180  
 aacacctgcc ctcgag 196

&lt;210&gt; 91

&lt;211&gt; 348

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 91

gaattcgcg cgcgctcgac gggggtggga aggagtgggt ggagctggcc tccctcagaa 60  
 tcaagctggg ctcaactgtg atttaggagg tatgaagtgg ggaatcagtc tttgtctacc 120  
 ttctgttccc tgcacccaga cctcctccac tttcttaggg taagaaatgc ctttgatagg 180  
 ggtaaaagcct ttctttccag agtttgagat cagagacttc aatatgcaaa gtcttggggg 240  
 atgctgacag atcagcacac gtgcttttta tatttaaata attctcacia cctatgtggc 300  
 ttgtcaggaa tgaagaatct aaagcttatt gtgctagggg cgctcgag 348

&lt;210&gt; 92

&lt;211&gt; 350

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 92

```

gaattcgcg cgcgctcgac gtctaatttc cttagtgcct gataatTTTT tattacggtc 60
tgagagattt atttaaaatt acttgtcaga ataattttga ggcttataat aaacatactt 120
tacttttaag agcaaagttt gcttctttac ccaggagcat tgtcagtcag ggaacaactt 180
aaaccaagtt ccttgagaac acattctaaa ttttttagaa cagcatctta ataaacaaaa 240
acaacactca cgtttcagat tttatatttt tgtttccaa aggatttata tcaactgtatt 300
tccaagtcat tgtcatgtta atgtctttca aatcaacatc tctgctcgag 350

```

&lt;210&gt; 93

&lt;211&gt; 286

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 93

```

gaattcgcg cgcgctcgac tttacatatt gtctattgct gcttttacac aagaacagca 60
gagttgtgta gttgcgacag agaccatacg gaccaccagg cctaaaatat ttactgtctg 120
actctttaca gaaaaagttt atctggcctc tagtctaacc tatcaatttt aaaaaaacag 180
ctttttggag aaagaattca catactgtgc aattcaccca tttatataca attcaatggg 240
ttttagtata ttcacagaga tgtgcaacca ccacccagc ctcgag 286

```

&lt;210&gt; 94

&lt;211&gt; 140

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 94

```

gaattcgcg cgcgctcgac gcatgagcca ccatgcctgg cccctttctt tcatctctcc 60
taatttttcc gacattctcc taccattttt ctcccttctt gggccttcaa tttgtgcccc 120
cctccacccc caccctcgag 140

```

&lt;210&gt; 95

&lt;211&gt; 176

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 95

```

gaattcgcg cgcgctcgac cgagtatttt actttattct tttagaagaa tgagtcattt 60
gtcctgttgt gtttccctt atctggattt tgtaatcata tcctggaatg tggtttcaga 120
ggtgtctctg tcttttgtat ttcatgtcag tttatactcc agtcgataag ctcgag 176

```

&lt;210&gt; 96

&lt;211&gt; 601

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (191)

&lt;400&gt; 96

```

gaattcgcg cgcgctcgac aaacaaaaga atcaaaactac gctaaattga ttgaaatgaa 60
tgaggaggga accggctgta atcatgaatt agaaatgac agacaaaagc ttcaatgtgt 120
agcttcaaaa ctacaggttc taccacagaa agcctctgag agactacagt ttgaaacagc 180
agatgatgaa natttcattt gggttcagga aaatattgat gaaattattt tacaactaca 240
gaaattaaact ggccagcaag gtgaagagcc cagcttggtg tccccaagta cttcttgttg 300
ctcattgact gaaagactac tgagacaaaa tgctgagctg acagggcata tcagtcaact 360

```

gactgaagag aagaatgact taaggaacat gggtatgaag ctggaagagc agatcagggtg 420  
 gtatcgacag acaggagctg gtagagataa ttcttccagg ttttcattga atggtgggtgc 480  
 caacattgaa gccatcattg cctctgaaaa agaagtatgg aacagagaaa aattgactct 540  
 ccagaaatct ttgaaaaggg cagaggctga agtatacaaa ctgaaagctg aaccgctcga 600  
 g 601

<210> 97

<211> 347

<212> DNA

<213> Homo sapiens

<400> 97

gaattcgcgg ccgcgctcgac gaagggaacg ttcagctgga aactggagat aaaataaact 60  
 ttgtaattga taacaataaa catactgggtg ctgtaagtgc tcgcaacatt atgctgttga 120  
 aaaagaaaca agcccgtgtg cagggagtag tttgtgccat gaaggaggca tttggcttta 180  
 ttgaaagagg tgatgttgta aaagagatat tctttcacta tagtgaattt aagggtgact 240  
 tagaaacctt acagcctggc gatgatgtgg aattcacaat caaggacaga aatggtaaag 300  
 aagttgcaac agatgtcaga ctattgcctc aagggaacagg gctcgag 347

<210> 98

<211> 351

<212> DNA

<213> Homo sapiens

<400> 98

gaattcgcgg ccgcgctcgac cttacctgic ctaggggagt aggcaagcac ttccactagg 60  
 gaggggggtgg gggaaaggaa tgacacatga catacatggc atacacatta agcagttgat 120  
 catatgtctg actgggttcc agtttcttgg gaatgttggg ccccttggtc aggcttgcat 180  
 attttaaact aaaaatttca gtctattggt tttagtaact tcatttatag tcctccatâa 240  
 caagtttagaa ggatgtatct gctaccattt attcctataa ttttagaaag ttgggggcttg 300  
 acattatact catttagtga gagtagatgc aaaaaagtgc aggggctcga g 351

<210> 99

<211> 446

<212> DNA

<213> Homo sapiens

<400> 99

gaattcgcgg ccgcgctcgac gaagaaggaa ggcgcgagtg aggaaaggag gtactgtaga 60  
 tgccctccaa atccttggtt atggaatatt tggctcatcc cagtacactc ggcttggtcg 120  
 ttggagttgc ttgtggcatg tgcctgggct ggagccttcg agtatgcttt gggatgctcc 180  
 ccaaaagcaa gacgagcaag acacacacag atactgaaag tgaagcaagc atcttgaggag 240  
 acagcgggga gtacaagatg attcttgttg ttcgaaatga cttaaagatg ggaaaaggga 300  
 aagtgggtgc ccagtgcctc catgctgctg tttcagccta caagcagatt caaagaagaa 360  
 atcctgaaat gctcaaaaca tgggaatact gtggccagcc caagggtggtg gtcaaaagctc 420  
 ctgatgaaga aaccctgacg ctcgag 446

<210> 100

<211> 266

<212> DNA

<213> Homo sapiens

<400> 100

gaattcgcgg ccgcgctcgac ccgtccctct acgcgttttg gtccctggtt ggtgctttct 60  
 gtttcagctc acggcagtg gtatatctgg gcataggaac caatcagaaa caatcgcttc 120  
 agcaatcaag accattgttc atcatggagg aacctatgga tacctctgag cctctatctg 180  
 cattaccatt cactgggcag cagtcttttg agccaagtgg caaatttggga cagtatccat 240  
 cgatgcagat gaaccacata ctcgag 266

<210> 101

<211> 290  
 <212> DNA  
 <213> Homo sapiens

<400> 101  
 gaattcgcgg ccgcgtcgac aaaaaagtta ctgtatttta gactaaatgg gaaagataag 60  
 agatgatgct acagagtaat tcagaggcta aaacatgtag gggctcttgta ggccatattt 120  
 ctttaaaaaa cagattaaaa aaacttattt tgggaaaaaa ctttcggaga tggccaaaga 180  
 acatgacaac tgccatcata cccttcacat gtattcattc attattaacg ttttcctaca 240  
 tttgcttatt tctccgtata ggggtatttt tcaagactgc tgatctcgag 290

<210> 102  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<400> 102  
 gaattcgcgg ccgcgtcgac gcagactgtg caagctccca gctgttcctt cttctgctgt 60  
 ccctagccaa caaacacagt ggcatttaca acttttgcca tatagaaatt atatgtaaaa 120  
 attcaggtag tactatttct tttagtcctg ttagtctctt tctctctcta tatatatgta 180  
 tctctggaca tgcattctct gttatatctt gaggtctttg ctgcaaccct cgag 234

<210> 103  
 <211> 240  
 <212> DNA  
 <213> Homo sapiens

<400> 103  
 gaattcgcgg ccgcgtcgac ggggccctgg tcacgcttga aaatggcttc actaagtaag 60  
 ttccggatga aattaaagaa aacactcctt aggtccttct tttctgcttg ttcttgggtca 120  
 cctacaatgg gagcagactt aaggcaagat tcacggggag ctacaggagg ttcatgggca 180  
 ggaaagttag tgggtgccagc agcttcaacg aagctccgtg catcccttct tcccctcgag 240

<210> 104  
 <211> 154  
 <212> DNA  
 <213> Homo sapiens

<400> 104  
 gaattcgcgg ccgcgtcgac cgctcgattga attctagtc tggttctttg cctccccaac 60  
 aaacaccgtg ttccaagaaa tgccaagcct gaagaagaat gaaggtaggt ctgaaatttt 120  
 cagaggccca agcaagactc tggatctct cgag 154

<210> 105  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<400> 105  
 gaattcgcgg ccgcgtcgac ggtgttaggg gtttaaaggg agttgactga ataagggtcaa 60  
 gatctgctgg tcttgaaaaa gaaacatctt cattatttca aatgtgtaac aactactgct 120  
 tgctatttgg cactatctgc ttctgtgctt catattaaat cctttaactt gcttcaatgt 180  
 gcatgtgctg gattgagagc cacttttgtc cccctgggccc cacaggaggg tcccggcgag 240  
 gacccccgcc ctctggctcc cggggcgctc gag 273

<210> 106  
 <211> 262  
 <212> DNA  
 <213> Homo sapiens

<400> 106

```

gaattcgcgg ccgcgtcgac gtggcctggg ctccctaatac aggtaaattg tctccaaagg 60
actagtaaa gtgactgggt catcctcctg cccagggac actgattaga gaaaatccgt 120
ctgtgctggc aatacggcag tgctggacac tcggaattcc cttgaaggca aaagcaagga 180
acagagcgtg attagggtact ggacacctgc caagtgtctg gctctctcca gtttacagat 240
gaggaaactg aggtcctctg ag                                     262

```

&lt;210&gt; 107

&lt;211&gt; 259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 107

```

gaattcgcgg ccgcgtcgac tgatgggtata agtatttacc tgggacaagg ggcttcctta 60
tttggctaaa ttatctaaaa tgcataggaa gaatagaact tttagtggc tatttttctt 120
ttatctatct atctatctat ctatctatct atctatctat ctatcatctc gttctattgc 180
ccagactgga gtgcagaggt gcaatcatag ctcaactgcag cctagaactc ctgggctcat 240
gcaattgtct cacctcgag                                     259

```

&lt;210&gt; 108

&lt;211&gt; 260

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 108

```

gaattcgcgg ccgcgtcgac ggttttacca tcctggctaa cacggtgaaa ccctgtctct 60
actaaaaata caaaaaatta gctgggatta caggcgtgag ccaccgcgc cgcccaaat 120
aaaattttta aaaggatatt tacatcagtg tagtatgtga agtaacaag aaaaagataa 180
aactcacttt ttaagtaaaa acagtcattgt gcttgaagta tggtgtaatc ttatcagaa 240
aagtatggga aggactcgag                                     260

```

&lt;210&gt; 109

&lt;211&gt; 255

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 109

```

gaattcgcgg ccgcgtcgac ttggattaca ggtccctgct gccacgccc gctaattttt 60
gtatttttag tagagatggg gtttctccat gttggctcag ctagtctcga actcctgacc 120
tcagatgatc tgccagcctc ggcctcccaa agtgatggga ttacaggcat gagccattgc 180
gcctggcccc ggacatttat ttttattgct aaatacattt cagtcattta tgtatttgtt 240
ttctcccccc tcgag                                     255

```

&lt;210&gt; 110

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 110

```

gaattcgcgg ccgcgtcgac tccttcctag ccttggtcgt cgccgccacc atgaacaaga 60
agaagaaacc gttcctaggg atgcccgccg ccctcggcta cgtgccgggg ctgggcccgg 120
gcgccactgg cttcaccacg cggtcagaca ttgggcccgc ccgtgatgca atgaccctg 180
tggatgatcg ccatgcaccc ccaggcaaga gaaccgttgg ggaccagatg aagaaaaatc 240
aggctgctga cgatgacgac gaggatctaa atgacaccaa ttacgatgag tttaatggct 300
atgctgggag cctcttctca agtggaccct acgagaaaaga tgatgaggaa gcagatgcta 360
tctatgcagc cctggataaa aggatggatg aaagaagaaa agaaagacgg gagctatctc 420
gag                                     423

```

&lt;210&gt; 111

&lt;211&gt; 203

&lt;212&gt; DNA

<213> Homo sapiens

<400> 111

```
gaattcgcgg ccgcgctcgac attacctcat aagcattaac aaatcaggcc caaagagcgt 60
aagtcctaga aatttggttt aaagcagccc tagtcatggt gctggtgcta ccgccttggt 120
ttaggagcct gcctcctgtc agtatgaaac cctcacctga aaaatgccag cctggacacc 180
aaacactgag ccccttcttc gag 203
```

<210> 112

<211> 257

<212> DNA

<213> Homo sapiens

<400> 112

```
gaattaagaa ttcgcgcggc cgctcgacaaa aaaaaaaaaa aaaggatacc aaaatttctca 60
agtcaaaatta taagggtttt aacattccca ttctacacc acgtgcaaga aaaacaaaat 120
ccttggttttc tgccctgcct tatggtccgt tctcattttc agcccccttt cctcattcta 180
ctctattaat tatgccttta tatggatgca aacttgtaaa atatgtggcc tattttgtgt 240
gtatacgtgg tctcgag 257
```

<210> 113

<211> 348

<212> DNA

<213> Homo sapiens

<400> 113

```
gaattcgcgg ccgcgctcgac gttggaggag gaggaagagg aagtcgaaga ctgtggcttc 60
ctttttttgt tacttgagaga ctgcgctgcta cgggtggaca ggtctttgac ttttgaggat 120
ttgctggttt tgggttttga tggcttggtg gatggggaag ggatgacggc tggatcggg 180
gacacggcgg atggggcctt gaaggttgag tccatgatgc tgaggggttc ggccacatga 240
gggaaagctg tgggtgtgga catgagggcg ctcgggtccg gcgatgtcac gaaagctgcg 300
tttgagagca tggctgatgt catcatgtaa gaagaggtga gcctcgag 348
```

<210> 114

<211> 303

<212> DNA

<213> Homo sapiens

<400> 114

```
gaattcgcgg ccgcgctcgac gggattacag gcataagcca ccgtgcccgg cctgtagatt 60
tcatttttag aagggttgc ttttaacagtt taaatttgta actcacataa aaaaaactta 120
ttataagaaa gagaaactag gtgttaggat aagtaaaaca ataagcattt ttgtctcttc 180
tgtttttgta gattttaatt gtttaactta ataaaatcac attaattggg gttcaactac 240
ttcacatttg taataacttt ggggtgttaa attgagatga aattcatcag gggaaaactc 300
gag 303
```

<210> 115

<211> 214

<212> DNA

<213> Homo sapiens

<400> 115

```
gaattcgcgg ccgcgctcgac aaaaaagaaa ggaagtggca tatttggtta attgataaat 60
taccactgtc aaattatatt ggtgagtcta tatctattgt tgteccacaga tgttccttt 120
gcaagaatta gtgtaaaatt ggaaaaaata ctcaatgttg aaagctgtca ttgttgagat 180
ctttatgaaa ttatttgacc catgtccgct cgag 214
```

<210> 116

<211> 230

<212> DNA

<213> Homo sapiens

<400> 116

```
gaattcgcg cgcgctcgac tgcagatttt tctcttcacc tcatcaacag gtgatatagc 60
ccttttgggt gcttggcttt aagtacagtt cttagattca gctcctctac ttgtcaagt 120
ctaaatacta ttcctcagtg atgctgataa ccagcaaagt tttagtttct atgttgggca 180
tatttttggg gcagccctgt aaggatgtgc tccatggtac aagactcgag 230
```

<210> 117

<211> 195

<212> DNA

<213> Homo sapiens

<400> 117

```
gaattcgcg cgcgctcgac attaatTTTT cctgagagca gtagacttga ttagatgccc 60
ttttgtagtg tcatcaaatc ttagattatg agctcaaaga ttttatctct atatacacia 120
tttctaataa taaaaaaaat agtcggggcg ggtgcggtgg ctcaggcctg taatccagca 180
cttaaggggc tcgag 195
```

<210> 118

<211> 460

<212> DNA

<213> Homo sapiens

<400> 118

```
gaattcgcg cgcgctcgag aagatcctat tcaagagctg accatagaag aacatttgat 60
tgagagaaag aagaaattac aggagaagaa gatgcatatt gcagccttgg catctgccat 120
attatcagat ccagaaaata atattaaaaa attgaaagaa ttacgttcta tgttgatgga 180
acaagatcct gatgtggctg ttactgttcg aaagctggta attgtttctc tgatggagtt 240
atttaaagat attactcctt catataaaat ccggcccttc acagaagcag aaaaatctac 300
taagaccgga aaagaaaccc agaagttaag agaatttgaa gaaggcctgg ttagccaata 360
caagttttat ttggaaaatc tggaacaaat ggttaaagat tggaagcaga ggaagctgaa 420
gaaaagtaat gtagtttctt taaaggcata cggactcgag 460
```

<210> 119

<211> 239

<212> DNA

<213> Homo sapiens

<400> 119

```
gaattcgcg cgcgctcgac cagacagatc aaatggaaag gctcccccat cctgtcctct 60
acaccacct gcagctgggc ctcagcaact gggcttttaa tttcagtcta attcaagtca 120
gcagcatagg gcagctcctg ggaaattggt ttacacatgc ggacaagccc agtagcccag 180
agctaacca ctcaccatcc ctgaccacag aggagcagat aaggaagcaa gaactcgag 239
```

<210> 120

<211> 191

<212> DNA

<213> Homo sapiens

<400> 120

```
gaattcgcg cgcgctcgac tgggcatcat ctccataatc ttttcataaa gcataaatga 60
tttcattatt cctctacca aactttacaa gaagtatttt tttttttgag ccagtatctc 120
gtcccatcac ccatgctgga atgcagtggc atgatcatag ctactgcag cctcaacctc 180
ccaggctcga g 191
```

<210> 121

<211> 227

<212> DNA

<213> Homo sapiens

<400> 121  
 gaattcgcgtg cgcgcgtcgac tttcttttga tcaactatgcg gtgtcactat gtggtagtag 60  
 cgaggtcaga ctgtagcgag tgtttaaagt ttgcttcctt tgttttctgg gcttgtgggg 120  
 ctttttgggg tacctgccct agcctagtca gtcattcccc atgctgcccc cttaggctag 180  
 agatgcccta cgcgcctcag gcctcgtga atgtgccaaa cctcgag 227

<210> 122  
 <211> 166  
 <212> DNA  
 <213> Homo sapiens

<400> 122  
 gaattcgcgg cgcgcgtcgac tgactcatag tcaagaccct ccaccagtaa catatattgg 60  
 cgagccagcc aggagaccac tacaggaaac actccattta ttccacctga cttcccactt 120  
 ggctgcatcc tcaaccattg aaatgaattt gaccctgata ctcgag 166

<210> 123  
 <211> 223  
 <212> DNA  
 <213> Homo sapiens

<400> 123  
 gaattcgcgg cgcgcgtcgac ctaaaacccc agaatcatta ttgttgcac tctttatttt 60  
 ccatctaatt attcatcaaa tagcagtaat gctttctttg aaatgtcttc tatatatctt 120  
 tgttttcggt tctgtcttcc atctcctcat ttctgttctt tccccctccc cttctctcga 180  
 tttacttcta acagctttat gtccctttca gtcgaccctc gag 223

<210> 124  
 <211> 178  
 <212> DNA  
 <213> Homo sapiens

<400> 124  
 gaattcgcgg cgcgcgtcgac cagactggca acaaactttt gagtgagtgt taagatacaa 60  
 gaaaccctaa aagttcctag gaaaaatgac ttttaaactta gaattccttt ttttaatttg 120  
 gtccacacag ggtctcactt tgttgcccag gctgctgtac aatggcccag atctcgag 178

<210> 125  
 <211> 226  
 <212> DNA  
 <213> Homo sapiens

<400> 125  
 gaattcgcgg cgcgcgtcgac agaaaagcac aaattagttt taagtgtaaa gttgaaaagt 60  
 aagtccgata aattaacatt caccatttgt ttttttttaa taaaggtaaa aatcactaaa 120  
 ataaacagcc cactttaaca aaaaataggt gcaataaaac tataaaaagag aaagcaaggg 180  
 agtgatgaac agaggttgta gggatgatgat acggaggata ctcgag 226

<210> 126  
 <211> 220  
 <212> DNA  
 <213> Homo sapiens

<400> 126  
 gaattcgcgg cgcgcgtcgac gtttcaaagc cgtagacacc ttttattcag ggctggtaag 60  
 cttcactggg gtttttggtc tcctgctttt tttttttttt ttaaactga ttacaatggg 120  
 gttgcacact gttgtgggtt atcgtttttt agtgatcctg ttgctcaata accctccagt 180  
 gctctgctct gaaacagcac cagaacccca cccactcgag 220

<210> 127

<211> 216  
 <212> DNA  
 <213> Homo sapiens

<400> 127  
 gaattcgcgg ccgcgtcgac tcgtccagta ccagtgccac gcagtttaaa tagtgatatt 60  
 tcctattttg gtgttggggg caagcaagct gtcttctttg ttggacaatc agccagaatg 120  
 ataagcaaac ctgcagattc ccaagatgtt cacgagcttg tgctttctaa agaagatttt 180  
 gagaagaagg agaaaaataa agaggcagct ctcgag 216

<210> 128  
 <211> 180  
 <212> DNA  
 <213> Homo sapiens

<400> 128  
 gaattcgcgg ccgcgtcgac gcaaactagt aagtatgagg ttttcagctt caaatacaaa 60  
 accgtaatga tactagctga cattattgag tgcattcaga atactttagt ggacttttta 120  
 taagaattat taatatattc caaaggatca ggaatgttac ttttcatggt ctccctcgag 180

<210> 129  
 <211> 204  
 <212> DNA  
 <213> Homo sapiens

<400> 129  
 gaattcgcgg ccgcgtcgac ttcctctcct ctctctcttg ccatttttagc gtgcatgatt 60  
 tcattttttt tgttggcacc tgtaagggtg tatctttttc ttgccacagc ttgggttatg 120  
 gttacatctt cccattgctc attgccacc ctccagttgg cacctctggt gcgctccttg 180  
 ctgggtgaag ccgggcctct cgag 204

<210> 130  
 <211> 237  
 <212> DNA  
 <213> Homo sapiens

<400> 130  
 gaattcgcgg ccgcgtcgac ctgagggatg ctcatcttta acagtctccc tcatgtactt 60  
 ttgctgtttt acacagagaa acaggtagac ccacagagg agaaggaggg gattcaacag 120  
 ctttattgtc tggaagcagt gagatttggt gattgtctgg ggggattcct gggtttcct 180  
 gggtaacctg ttccaggcag tcagtccatt tgccttcta gtacaagccc cctcgag 237

<210> 131  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<400> 131  
 gaattcgcgg ccgcgtcgac cttgtagata ctttttgaat ttaatgtcgt tagaattgct 60  
 tcctttttta atgctctatc taggtgaaag atatgacct gagcccaa at caaatggga 120  
 tgaggagtgg gataaaaaca agagtgcctt tccattcagt gataaattag gtgagctgag 180  
 tgataaaatt ggaagcacia ttgatgacac catcagcaag ttccggagga aagatagaga 240  
 gactctcgag 250

<210> 132  
 <211> 258  
 <212> DNA  
 <213> Homo sapiens

<400> 132

```

gaattcgcg cgcgctcgac atttatttaa ataatatagt tccatatttt ttagtatatt 60
tacagagttg tgtaaccatt accacaatct aattttggaa cactgtcttg gctcctgaaa 120
gatcctgcaa accattagca gtcacttctc atttcctctt tccccagccc ctggcatcca 180
ctaactctact ttatgtctct atggatttgc ctactctggt tgtttcagat aacatttggg 240
ctttgtgaca gactcgag                                     258

```

```

<210> 133
<211> 139
<212> DNA
<213> Homo sapiens

```

```

<400> 133
gaattcgcg cgcgctcgac ctttcccaaa attcagaagt taatgggctt ttatgttttt 60
ctatattttt tttatttcaa tgatttggcc tgtctatggt aggctaaaaa ataaccttgt 120
gtatgctacc aacctcgag                                     139

```

```

<210> 134
<211> 201
<212> DNA
<213> Homo sapiens

```

```

<400> 134
gaattcgcg cgcgctcgac ggagaagtaa gaattgtaag ggaggttcag tagtggggaa 60
ttctgtgaca gctgattgaa gatgatgatg aagaacctct gcattctagt taccctttgc 120
ttcccttcac ctcttgtaaa atttggcttg gcaacaatga cattgtcatg cttattgtcc 180
caatatccat ccaatctcga g                                     201

```

```

<210> 135
<211> 132
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (84)

```

```

<400> 135
gaattcgcg cgcgctcgac ctcgaggttg tctaagagga aaccaaaaaa gagctggaag 60
agaacaagcg atccctggct gcantggatg cactcaatac tgatgatgaa aatgatgagg 120
agggctctcg ag                                     132

```

```

<210> 136
<211> 190
<212> DNA
<213> Homo sapiens

```

```

<400> 136
gaattcgcg cgcgctcgac agaagacata ctaatagaac tccttgcttt taattgggga 60
aatagggctt taataatttt gacctcaact aaaaatgata tgcaatagtc tctgtgtgtg 120
tttgaaatac attgtgttct cagagatttc tacattctca cgttctagtg atttggggca 180
tagactcgag                                     190

```

```

<210> 137
<211> 220
<212> DNA
<213> Homo sapiens

```

```

<400> 137
gaattcgcg cgcgctcgac atcacaatga gaccgttggc tttgaatttg agtcgttggg 60
tccatggtg agatgcttgt taagacttta tacttgggtc aatctctcac tttattttgt 120

```

agaaccattt gaaatcctag gatgtgcttg ttctggaagg atgacatggg cccagactga 180  
acaagtcagc ttgatgatct taaatgatgg gcaactcgag 220

<210> 138  
<211> 156  
<212> DNA  
<213> Homo sapiens

<400> 138  
gaattcgcg cgcgctcgac tgcatttttt ggtatattaa tcttgatcc tgtaaccttg 60  
ataatgcatt tattagttca tagtggtttt tgcttctttt gtctttttct ggtaaatgcc 120  
ttaggatttt cttttttctc cgactccccg ctcgag 156

<210> 139  
<211> 239  
<212> DNA  
<213> Homo sapiens

<400> 139  
gaattcgcg cgcgctcgac ctgaaaataa ggaaaatgtt agggacaaaa aaaagggcaa 60  
cattttttatt ggctctgttg atgagcgccc ctgtttgctc ggacaaggcc gaaggaagca 120  
gcagctctac tggtgcagg cttgacatcc gggtttctag ctctgaacga gaagcagagt 180  
cctggaaact atcaaacaca acctcgccctg tggcaggctg cactcccaca atgctcgag 239

<210> 140  
<211> 169  
<212> DNA  
<213> Homo sapiens

<400> 140  
gaattcgcg cgcgctcgac cccgcctcaa cctcacgagt aagctgagac tgcaggctcc 60  
accacaccca gcgaatttat ttatttttgc agagatgagg ttccaccttt ttgccaggc 120  
tggctcaaaa ctcttgccct caagtgatct gaccaccagc ggccctcgag 169

<210> 141  
<211> 222  
<212> DNA  
<213> Homo sapiens

<400> 141  
gaattcgcg cgcgctcgac aaaacgcctt atgatgaatc taagtcttat attggctgtg 60  
atctttgtac taactggtat catggagaat gtgttggcat cacagaaaag gaggctaaga 120  
aaatggatgt gtacatctgt aatgattgta aacgggcaca agagggcagc agtgaggat 180  
tgtactgtat ctgcagaaca ccttatgatg agtcacctcg ag 222

<210> 142  
<211> 198  
<212> DNA  
<213> Homo sapiens

<400> 142  
gaattcgcg cgcgctcgac tgccaaattc tttaaatctc gaaattggc ctaaaagaga 60  
cttcatatat catctggttc aatgagagac ctttttactt tatttattat tttattttat 120  
ttattttatt atttatttat ttttgagacc gtgccattcc actccagcct gggtgataaa 180  
gctggactcc gactcgag 198

<210> 143  
<211> 238  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 143

gaattcgcgg ccgcgtcgac tattcttgc t tgcgtggagg cagatctgaa ggatgtcatc 60  
 tctcctgtgg cttcttctag tgtgggggtcc cgaagcctgg cttccccagc cgatgtgctg 120  
 ctttagtcag cgtctgccct ggctcctcgg ttcgcaggct cacacgcttt tttgggttgt 180  
 gtccctttgg actgcagagg ctacgtgtcc tgtgaccaac cacggaggcg gcctcgag 238

&lt;210&gt; 144

&lt;211&gt; 151

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 144

gaattcgcgg ccgcgtcgac ctaaagtcca gtgtttccag agacttttga aagtcactt 60  
 acactttttc cttcttcatt cacaaagctc ttcttccctg ggccctggta tgtatgcctt 120  
 tctctcctac tgtctaatag cgagcctcga g 151

&lt;210&gt; 145

&lt;211&gt; 186

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 145

gaattcgcgg ccgcgtcgac caggatgtcc tttctatccc attcatctac cttggtgttt 60  
 ctttgtcttg cctccttgct ctgggtgtgc gagcaatatg gggcaccttc atttctgcag 120  
 tcagagggtt ggccactggg aatgagaaga accacctctg taccttggga tgctgtgtca 180  
 ctcgag 186

&lt;210&gt; 146

&lt;211&gt; 460

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 146

gaattcgcgg ccgcgtcgac gggctcctgaa gccctctgtc tacctgggag accaggagacc 60  
 acaggcctta gggatacagg gggctccctt ctgttaccac cccccacct cctccaggac 120  
 accactaggt ggtgctggat gcttgttctt tggccagcca aggttcacgg cgattctccc 180  
 catgggatct tgagggacca agctgctggg attgggaagg agtttcaccc tgaccattgc 240  
 cctagccagg ttcccaggag gcctcaccat actcccttcc agggccaggg ctccagcaag 300  
 cccagggcaa ggatcctctg ctgctgtctg gttgagagcc tgccaccgtg tgcgggaggt 360  
 gtgggccagg ctgagtgcag aggtgacagg gccgtgagca tgggcctggg tgtgtgtgag 420  
 ctccaggccta ggtgcgcagt gtggagacag gattctcgag 460

&lt;210&gt; 147

&lt;211&gt; 244

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 147

gaattcgcgg ccgcgtcgac caccttccat ccattttccc agtccagaaa tttaggagtt 60  
 atctctgatt cttcttttat tcttaatccc attttccata cataatcaag cccctgggtc 120  
 agtcagttct tgcgtcccaa gatttctcaa ttctgtctgt ttgccatatg tgaatcatat 180  
 gctactgtgt tacctttgca ttagtcttag tttttcattt aaatatattc agtgtgagct 240  
 cgag 244

&lt;210&gt; 148

&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

gaattcgcgg ccgcgtcgac atttcatgaa cttaggatgt gttttttatt catgaaaaac 60  
ttagaatagt gaactattaa tatttataaa cgagaaatac aacattttaa aaattaagag 120  
tattttgcat tagtgattat gattcttata ccaaaattcc tcgag 165

<210> 149

<211> 252

<212> DNA

<213> Homo sapiens

<400> 149

gaattcgcgg ccgcgtcgac gaagcctcat tggagcagat tgctttaaaa tctttttcct 60  
tctaatttca ggattggcat ctctgtctt tttctgctt cttggcattt tagcatatct 120  
ccagtagggg gtcctcgaat tctgaatacc aatttacgcc aaattatggt cattagtgtc 180  
ctggctgctg ctgtttcact tttatatttt tctgttgtca taatccgaaa taagtatggg 240  
cgagatctcg ag 252

<210> 150

<211> 136

<212> DNA

<213> Homo sapiens

<400> 150

gaattcgcgg ccgcgtcgac agacattggt ctttagccat tgtatcttta atagtctttt 60  
aaacacattc atctctgggc taaaaatgct ttttaaaaaa accaaaaaga gtacttttct 120  
agaagcattg ctcgag 136

<210> 151

<211> 188

<212> DNA

<213> Homo sapiens

<400> 151

gaattcgcgg ccgcgtcgac cccaacctga agctgaagaa gccgccttgg ttgcacatgc 60  
cgtcggccat gactgtgtat gctctgggtg tgggtgtctta ctctctcacc accggaggaa 120  
taatttatga tgttattggt gaacctccaa gtgtcgggtc tatgactgat gaacatggac 180  
acctcgag 188

<210> 152

<211> 181

<212> DNA

<213> Homo sapiens

<400> 152

gaattcgcgg ccgcgtcgac atttttactg caagttaatg ctggaaaaac agggcaattt 60  
ttcacagaga gaacatccta ataatatcag tttagtacaa aatagcggca tcttagtgaa 120  
ccttgatatt ttcctttttg ttgcagttgt tgctagaaaa cataatcgga aggacctcga 180  
g 181

<210> 153

<211> 251

<212> DNA

<213> Homo sapiens

<400> 153

gaattcgcgg ccgcgtcgac caacctctg gcttagtaag ttgtggtttt tctgaccttt 60  
ttaaagtttg agaggacatt ttatttataa taaccaattt atttgaattt cagtctcaga 120  
agtattaaat attagttcat aagattgtta atctgctggg tcaggcaaat acagaagagt 180  
ttttcacttt attcttgatt attttactta tgatcatttc caatttagtt ggggtaataa 240  
cctgcctcga g 251

<210> 154  
 <211> 224  
 <212> DNA  
 <213> Homo sapiens

<400> 154  
 gaattcgagg ccgcgtcgac atttgttgag ttttgaccac tgcgcctggc tcatattttc 60  
 tttatatatc aaaacaattc agcttgcttc acttttatga aagctttatt atgagtttga 120  
 aagcaattct gcattttctt aacattgtaa ctggtgttga gttgaaggca ggcccctggg 180  
 agccctttgt gggcaattcc cttcactctg gaggtgcct cgag 224

<210> 155  
 <211> 145  
 <212> DNA  
 <213> Homo sapiens

<400> 155  
 gaattcgagg ccgcgtcgac cttgtcttat tcttgatttt aggggtgctca ctcttagtct 60  
 tttgccatta tattgtttta tgggtgtttt ccataacctc actatgctga atagcagttt 120  
 ggcactctgt ctggctgctc tcgag 145

<210> 156  
 <211> 163  
 <212> DNA  
 <213> Homo sapiens

<400> 156  
 gaattcgagg ccgcgtcgac cagctatttt attttaaaag ccaaaatatt tttaaactag 60  
 ttttaaatct tgacgctttg aatagataac acttttacat ggttcaaaaa taatataaag 120  
 agctatacat tgaaaaatgt tgcttccact cctgttctc gag 163

<210> 157  
 <211> 197  
 <212> DNA  
 <213> Homo sapiens

<400> 157  
 gaattcgagg ccgcgtcgac agagcttact gagttaattg ccaggagatg tatctaagtc 60  
 agagggttga gttgctcctc tgtgttttgc tgggttcgtg cagagctgct tttgtaccag 120  
 gtttctacca cttgggggtgc tttttgcttt tcttttact tcccacatct caagcacctg 180  
 ctgcgggtca gctcgag 197

<210> 158  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 158  
 gaattcgagg ccgcgtcgac ttaaaaaatt gtgaagcgtc gcataattttt tcagttattt 60  
 tagtattaac aaacaaattg aagatcattg gtttatataa ccccttgaga gactaatagt 120  
 agaatagaac agaataatag aatagaatag aacagaatag aataatagaa tagaattata 180  
 ggtatgagcc gtggtgcctg gcctctaata gtttttttgt tgggtgtgtt gttgtttttt 240  
 atggcttccc tcgag 255

<210> 159  
 <211> 150  
 <212> DNA  
 <213> Homo sapiens

<400> 159

gaattcgcg cgcgctcgac tggagtggga tgggaatttag caaaggtaca tagaacaaca 60  
 gtgatcacat tgcttaagag tttctggttt tttttgtttt ttgtttttt tgagatggag 120  
 tcaggctctg tcgcccaggc tggactcgag 150

<210> 160  
 <211> 114  
 <212> DNA  
 <213> Homo sapiens

<400> 160  
 gaattcgcg cgcgctcgac cttattccaa cattttcttt aaaacaccag caaacgtatt 60  
 tgtgaatctc tcttatcctt gaaacttctt atgctgttga taaacttact cgag 114

<210> 161  
 <211> 166  
 <212> DNA  
 <213> Homo sapiens

<400> 161  
 gaattcgcg cgcgctcgac ctatgaatca cgatactacg atgacccctcg ggaatacagg 60  
 gattacagga atgaccccta tgaacaagat attagggat atagtacag gcaaagggaa 120  
 cgagaaagag aacgtgaaag atttgagtct gaccaggagac ctcgag 166

<210> 162  
 <211> 182  
 <212> DNA  
 <213> Homo sapiens

<400> 162  
 gaattcgcg cgcgctcgac attctttgtt accctttaca agtataagtg tttacaagta 60  
 taagtgttac cttacatgga aacgaagaaa caaaattcat aaatttaaat tcataaattt 120  
 agctgaaaga tactgattca atttgatata agtgaatata aatgagacga cagcttctcg 180  
 ag 182

<210> 163  
 <211> 217  
 <212> DNA  
 <213> Homo sapiens

<400> 163  
 gaattcgcg cgcgctcgac cttttttctc tctctctttt aaataaacac aagcttcaaa 60  
 taagcacaca ataagtctg gcaagcctac tgggatttgg gattctctag ttagttttct 120  
 ttgcctaact gagatatcta tttcatacta ctcttcattc cccaatata tcattcccct 180  
 ctctacctcc cctcccagct gccccacaa cctcgag 217

<210> 164  
 <211> 165  
 <212> DNA  
 <213> Homo sapiens

<400> 164  
 gaattcgcg cgcgctcgac gcacaatagc agtttctaag caatgaatga gaggacacgt 60  
 atgttggtga ctttgttgtt tctcttcac cctccaataa ataaaaccga gagttttgtg 120  
 gacagggatt tattagagtt tcatcattta gttgacaggc tcgag 165

<210> 165  
 <211> 227  
 <212> DNA  
 <213> Homo sapiens

<400> 165  
 gaattcgcgg ccgcgtcgac tcgtgttaac aactttttgc tttgttggat tgtttcttta 60  
 ggatacattt ccagacatat acttagaaca tcaaaaacgt atggacatct ttttgatttc 120  
 tcatgtgtta tattatgtcg catgtgttat gttatatgta tatatatata tgtataaacac 180  
 atatatatat gtcattgtgt atattatgtg ggggggaaaa actcgag 227

<210> 166  
 <211> 211  
 <212> DNA  
 <213> Homo sapiens

<400> 166  
 gaattcggcc aaagaggcct agtttatgaa acttaccaga aaataaaagg accaatctaa 60  
 aataaagaat ctctattgta tttttctact gacaatgcaa atgcttatct taaaacatct 120  
 aattttttcc cccttttcac aggcaagcac aactgtaaca cttccagaat ctcagttcct 180  
 tgccagttgt cattctgaag catccctcga g 211

<210> 167  
 <211> 218  
 <212> DNA  
 <213> Homo sapiens

<400> 167  
 gaattcggcc aaagaggcct agaattaaaa ccataatct atatcttagc taagatagga 60  
 aaaatttact aaaatatttt tttctggttg aatttcagat ttctctata actctgcaca 120  
 ccagaaaaaa atctatagta caaatacaca tgaaattcca tcaactgttt catttttttt 180  
 taatttttct taatcttgtt cagggcatac atctcgag 218

<210> 168  
 <211> 238  
 <212> DNA  
 <213> Homo sapiens

<400> 168  
 gaattcggcc aaagaggcct aaagccaggt aaaaatttta aaaaagatga aatcctttct 60  
 ggcttctgcc agaggtcctg cattcttcat atctctgttc ctcatcagtc actgcaaagc 120  
 tgatcagaca gattggcatg gtgttcagca ttttgagttc cagactctgg cgatgggaga 180  
 taggtcattt ggaatttttc cctcatcccc tctcaaaac caaatcagaa atctcgag 238

<210> 169  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (31)

<400> 169  
 gaattcggcc aaagaggcct aggttgatta natatttttg ctattgtgaa tagtgctgca 60  
 gtaaacgtga ggggtgccc atctctttga taaactgatt tcctttcctt tggatagata 120  
 ccagtagtg ggattgctgg atcatatggg agttctattt atagtttttc tttttttttt 180  
 gagacggagt cttgctctgt caaccaggct ggagtgcagt ggcattgatct cagctcactg 240  
 caacctccgc ctcccggggc tcgag 265

<210> 170  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<400> 170  
 gaattcggcc aaagaggcct aggatattcc agcaaagtct ctaactgcag cctgtagaca 60  
 atttgctatt aaagattcag tgcacaaaat atagctaaca gcttttaaata ttttactttt 120  
 aaccagtctg gggatttgct tgcctgggtga gtctcatatg ccatattatg aatatgaaaa 180  
 taatgaagtt aatttcctgt tgcctttctg tgcagccac aaacctcgag 230

<210> 171  
 <211> 293  
 <212> DNA  
 <213> Homo sapiens

<400> 171  
 gaattcggcc aaagaggcct aggaatggct tgatggtgct aggctatgct gtgactgggg 60  
 ctgtcctggg ccaagacagg ctgatcaact atgccaccaa tgggtccaag ttcctgaagc 120  
 ggcacatggt tgatgtggcc agtggccgcc tgatgcggac ctgctacacc ggccttgggg 180  
 ggactgtgga gcacagcaac ccacctgtct ggggtctcct ggaggactac gccttcgtgg 240  
 tgcggggcct gctggacctg tatgaggcct cacaggagag tgcgtggctc gag 293

<210> 172  
 <211> 139  
 <212> DNA  
 <213> Homo sapiens

<400> 172  
 gaattcggcc aaagaggcct agggattttt tactagtgat ttaatgttac tacttgttat 60  
 tgggtctgttc aggttttctc tcttctgat tcaagctggg cagggtgtat gtttcagga 120  
 atttaccatt tccctcgag 139

<210> 173  
 <211> 149  
 <212> DNA  
 <213> Homo sapiens

<400> 173  
 gaattcggcc aaagaggcct agtgagagt acatcatgca ggaattactc gtattgaaca 60  
 cactttttct agatattctt ccaatcccg acgtcgggca tctaattgtt gttctgataa 120  
 tgaaaatggc cactcccccg ggactcgag 149

<210> 174  
 <211> 209  
 <212> DNA  
 <213> Homo sapiens

<400> 174  
 gaattcggcc aaagaggcct actcgaagtt cctcaaatac accaaagact ttcttgccct 60  
 aaataatttt tatgtatcta tttctgcatt ctacagctttt ctttttcctt ttatctaccc 120  
 aaccaaatct ttcaaggctt agtgaaaatg atttccttcc tgaggctcagt ccttgcccaa 180  
 aaagatccct cacatcctct aaactcgag 209

<210> 175  
 <211> 223  
 <212> DNA  
 <213> Homo sapiens

<400> 175  
 gaattcggcc aaagaggcct aatcatatta taactgatta gacaaaatgt ggcattattg 60  
 tttttatttc ttttgtgttt tacaaggctt cactctgttg cccaggctgg agtgcagttg 120  
 tatgatctcg gctcactgca gcctggacct cctaggctca agcaatcctc ccacctcggc 180  
 cccccacata gctgggacta cagggtcgag ctatcgactc gag 223

<210> 176

&lt;211&gt; 151

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

```

gaattcggcc aaagaggcct agtttcttga atgtaacatg acatttctca ttccataacc 60
ttcatttatg ttgtttattc ttggaatgc cttccttcat tttgatgctt cacacgctaa 120
tacacatcct tcaagacceca attcactcga g                                     151

```

&lt;210&gt; 177

&lt;211&gt; 327

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 177

```

gaattcggcc aaagaggcct aaacataatt agttgtttat atacttctc tttaatccca 60
gagttcgatt tacaaaaat ttgattgctg tttttgtata ttatctcagt gctctaaaat 120
taccctagca aacgtgcagg aatgggtgta ggcctcttaa ataaaaatgg aattagttat 180
gttggtgttt ttttttttgc tgtttcactg ttacaattcc ccactgtcaa aggtcattc 240
cacaattttg tgggattagg gacaatggga tgtcatctct cagctggcta cttcttgccg 300
aacagggtca acgcggggca actcgag                                     327

```

&lt;210&gt; 178

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 178

```

gaattcggcc aaagaggcct agagggggcgc tgcgagggtat actgctctcc tctctgggat 60
ctgtgagtaa tacactacct ctgctatttc atgcaccctt gctatttcac gttgcctcct 120
ctgtgtctca cctgccagc acacctgaat ctacagtatt tctgggtcag ggcattccta 180
gagagtggct atcttggttag gaataaacca gaaacaggtc agacaagagc cccaagagtg 240
tctgtcaata taatcaagtc cttatgagag aggacatctg gtcacagggtg gacacttagg 300
cattaggcct tccaccagaa agaagtatcc caagaaaggc aactgcaga cagccacgac 360
cacctcccct gcatcagagc agggctagag tttatagcca cttcttagag agagctcaag 420
aactaattag aaagaaaaaa aaatacaaca cacttggtcca tgttaaaact gggatttggg 480
cccatgccat ctggctcgag                                         500

```

&lt;210&gt; 179

&lt;211&gt; 226

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 179

```

gaattcggcc aaagaggcct agttgagggg aggttggttt catggtttta cttttggttt 60
tttgaggact atgtttgttt ttatttttat tttttatttt tttatttttg agacagaatt 120
ttgctattgt tgcacaggct ggagtcagtc ggcacgatct cagctcactg caatctccgc 180
ctcccagggt caaactattc tctgcctca gctcccaag ctcgag                                     226

```

&lt;210&gt; 180

&lt;211&gt; 272

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 180

```

gaattcggcc aaagaggcct aatgtggctc tttctccttt ttcacctatc ttgatttga 60
tgctcagaat agtttcttc ttgtgccatg ttgacagcta agtttcccaa ggatagcca 120
gctttcttta ggagttttct tcttctcatt cctaccatga tgtgagaatt gactgagctg 180
gtttctcctt atttggttga cacattacta gtaaccatta cttataatta ttttagatga 240
tgctagcatc atttttactg ataaggctcg ag                                     272

```

<210> 181  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<400> 181  
 gaattcggcc aaagaggcct aagaatgtgc atacatgttt tcatgagtgt cctttgggtg 60  
 ctgtttcttt taaatcctct gtgcacaggg ctctggcctt tagtaaaactg tttttctgtc 120  
 ttacgtcatg ctgactgggt gctaggggct gattacaaag gggaagagtt gaacagacat 180  
 cagggggccga tgaaactaaa tggactcgag 210

<210> 182  
 <211> 353  
 <212> DNA  
 <213> Homo sapiens

<400> 182  
 gaattcggcc aaagaggcct acgttctgca agtactagtt aatacaataa aactagagag 60  
 agaaagaggt aattcaaagg caggaggtaa aatgatcact acttgacaaa tgagtgtata 120  
 cctgaagaaa cccaagggaa tccactgaaa aactactatc aacatgaaga gagtttcaga 180  
 aaagatgaca gctgggtaca aaattaacac agagaaccca atagggtatca catataaacc 240  
 aacaactagt gagaagatac aatggaagaa atggccttat tttcaaaagg aacaaaaagt 300  
 taaaatatta taagtcaatt tcacaggaaa tgtctaaaac tcccagactc gag 353

<210> 183  
 <211> 198  
 <212> DNA  
 <213> Homo sapiens

<400> 183  
 gaattcggcc aaagaggcct aaagacatca aggcattcaa tgcataccgt tttggttttt 60  
 attttctcct gtcttttgct ttctggattt tcattctcatg taaagcatgt gggggtttta 120  
 tttttatatt tttgtgtgtg tgtgcagtgt ctgccccaaag caagtctctt gggaggagga 180  
 ggcggcagca cactcgag 198

<210> 184  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<400> 184  
 gaattcggcc aaagaggcct attttaattc tatttttcat ttgagctgac ttgtagccac 60  
 ttcagactat caatggaatc ttatgttgag cctttctctg gctttccttc ctccactatc 120  
 tctccaactt tagagatcat cccctctccc tccagtgcgt tctatctccc ccacaccac 180  
 cctagatact cccttttcac ccacctcttc ctcgag 216

<210> 185  
 <211> 208  
 <212> DNA  
 <213> Homo sapiens

<400> 185  
 gaattcggcc aaagaggcct aaaggctgaa tatgaggaaa aattcctgggt acaaggteat 60  
 actaagcatt ttagttccac ctgccatatt gctgttagag tataaaacta aggctgaaat 120  
 gtcccatatc ccacaatctc aagatgctca tcagatgaca atggatgaca gcgaaaacaa 180  
 ctttcagaac ataacagaag agctcgag 208

<210> 186  
 <211> 184  
 <212> DNA

<213> Homo sapiens

<400> 186

```
gaattcggcc aaagaggcct aatttctcat caccgaagc tgcaaatctt ttcaaatgtt 60
atatttcata ttgtgggttac tgtctccaaa tatcttctct tctcttctcc ttcaattgcc 120
ttgcagctgg caagtctctg gagtccctgt cccctgccat tgcccactga acagacatct 180
cgag 184
```

<210> 187

<211> 239

<212> DNA

<213> Homo sapiens

<400> 187

```
gaattcggcc aaagaggcct aggtagactt cctgtgatct tcagaaatca tctacctggt 60
aaaaatacat gctgtttaga atatctgata ggtgtttcca gctactatta gaggtgatag 120
tgcttttctg ggggaaaaaa ttggtcatgg tgaatggaga tcgaggaagc tcgggacaag 180
ggaggggtgg gctgcctgat tttgtccagt ttccaaata tccacgcaat gaactcgag 239
```

<210> 188

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (151)

<400> 188

```
gaattcggcc aaagaggcct agtgtgtgtg tgtgtgtgtg tgtctaattc aaattatata 60
caaggagttt gtgcaggctt tcttttagagg cagaagccag ttaggcagggt caagaataat 120
ataaaatcac aaatgaagag aataatgtgt ntatttttca tttgtcattt aggactgtct 180
gggggagact gtcctctctt gggcggaaga ctcgag 216
```

<210> 189

<211> 303

<212> DNA

<213> Homo sapiens

<400> 189

```
gaattcggcc aaagaggcct acaatcttta gcttccatag tgtcacacac tattaatttt 60
ttctcttctt cattagctgc acctactcat tctctttgtt ggttctctct catcttcttg 120
acaacttttg cagctgcctc catggcattt ccacttggtt atctattaat aatatttata 180
ctaattgtgt cagaagcaaa tttctgttcc attctacctc ccaattctgc tccaccttca 240
gtcttacctc gttcgattaa agacaactct attcttccac ttgccagacg caaaaacctc 300
gag 303
```

<210> 190

<211> 209

<212> DNA

<213> Homo sapiens

<400> 190

```
gaattcggcc aaagaggcct atgagaatcc acgcgagacg gagccctcct cgccggccgg 60
cctggacgct tgggatcttg ttccctgttct ggggatgtat cgtcagctct gtatggagtt 120
cttctaattg agcttctctc tcttccacct ctctctcgcc ggggtctcac tctcagcacg 180
agcaccattt ccatggcaac aactcgag 209
```

<210> 191

<211> 195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 191

```

gaattcggcc aaagaggcct agtgagttgt tataaaacaa tgctgcctct tctattttgc 60
gctttttgtt tgcacaaact cggccccctt ctgtttctct acgatgtttt gatgcagcat 120
gaggcagtca tgagaaccca ccagatacag ctgcctgata ctgaatttcc cagccaacag 180
aaccaaatgc tcgag                                     195

```

&lt;210&gt; 192

&lt;211&gt; 215

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 192

```

gaattcggcc aaagaggcct agaaagccct gaccctagat tggctgaatc tgaatctgca 60
ttttaacaag atctctagga ataaatatgc acaataaagt tttagggtgca tggctctgtg 120
ccatgctgcc tgtttctgac acaaatgaaa gaaaatcagc tattgaagga agcaggtctc 180
tagatctgac agtccatgtg tcttcttccc tcgag                                     215

```

&lt;210&gt; 193

&lt;211&gt; 275

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 193

```

gaattcggcc aaagaggcct agtctcgaac tcttgagttc aagagatccc cccacactca 60
gcctcccaag tagctgggac tacatgccct tgctctgctt ttgttttcca ttattttctc 120
acatgtcagg cttcattata tgtttcacag tctttattat tatttacctt cctcagctag 180
aatgtgagtc cacaaggata ggtctgaact cttttactca cagcatttct gacccccaaa 240
tatgtgtctt ttgtctcat accaaccaac tcgag                                     275

```

&lt;210&gt; 194

&lt;211&gt; 282

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 194

```

gaattcggcc aaagaggcct acgtcgattg aattctagac ctgcctccag gacctccccc 60
cttttttaaaa aataaatcgc tgacaagtgt gaatcccgtg aagactttat ttgtgttgtt 120
gtgtatcctg tacagcaagg ttggtccttc gtaacaacgg atgaaatggt tccctttttt 180
aaagcgccct ctctccctcc accctcagcg cccctgtcct tggcatgttt tgtatcagcg 240
atcattctga actgtacata tttatgtagc gagaggctcg ag                                     282

```

&lt;210&gt; 195

&lt;211&gt; 132

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 195

```

gaattcggcc aaagaggcct agcttgccca ttttgcttgc caatgttcca tctttcgggt 60
tctgatttaa tgcttgetca tatgetacta tggcttcttc aggetctaga atattcatgt 120
atgcatctcg ag                                     132

```

&lt;210&gt; 196

&lt;211&gt; 224

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 196

```

gaattcggcc aaagaggcct agccgtgaga cgtttcggga gccggagtct ctccaccgca 60
gacatgacga agggccttgt tttaggaatc tattccaaag aaaaagaaga tgatgtgccca 120
cagttcacia gtgcaggaga gaattttgat aaattgttag ctggaaagct gagagagact 180
ttgaacatat ctggaccacc tctgaaggca gggtaggact cgag 224

```

```

<210> 197
<211> 169
<212> DNA
<213> Homo sapiens

```

```

<400> 197
gaattcggcc aagaggccta agtgaaacta agtaactact gtcagtcaca ttactcctt 60
agcacttttg agtaactgt ggtttgattt tttttgaca gggtaacaa acttggacat 120
acacacacat acataaacac tcatgcaaat caacttaaaa atactcgag 169

```

```

<210> 198
<211> 209
<212> DNA
<213> Homo sapiens

```

```

<400> 198
gaattcggcc aaagaggcct actcaaaaga aggaggaaaa acaaggtcct gaaagtgcct 60
atatttcatt agggaggtgg agaaaaaagg gacaaaaaag tgactgagaa gtaataatta 120
acaatcagaa agacactaga gttcatcctg ggagccacgg agggacaagt ttcaaacttg 180
agaagatgaa gactgcagca gttctcgag 209

```

```

<210> 199
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<400> 199
gaattcggcc aaagaggcct accgtctcaa aaaataaata aataaatagt ctattgccta 60
agaataatat cctattcctc atttctcctc ttacacatt acacacccca ctaactgtgt 120
gttctagatt cagcatctt tgtacctatg catatgctgt tctctctgtc tgaaatgtct 180
ttctcttccc cctcatctg tcagattcca aaagtccttc tgactgggct cagatgtgat 240
tcttccggga gaccttctcc caatcttccc caagttgcag tcatctcttc acactgggaa 300
ctcgag 306

```

```

<210> 200
<211> 176
<212> DNA
<213> Homo sapiens

```

```

<400> 200
gaattcggcc aaagaggcct atcacaagat tccgttatcc tgaaaggcct attatatttt 60
atgcagtctg ctacatgatg gtatccttaa ttttcttcat tggatttttg cttgaagatc 120
gagtagcctg caatgcatcc atccctgcac aatataaggc ttccacagat ctcgag 176

```

```

<210> 201
<211> 198
<212> DNA
<213> Homo sapiens

```

```

<400> 201
gaattcggca aagaggccta atcttttctt agcactgctc tctcatacat atcagggtgc 60
aaatattctt ctgtgccata cagagaaaca aactgctcat catcttctaa ttctctagct 120
gcacaaaaat ctgtgagttt gtacacagac tgtccatctt cccctataac acgcatgata 180
tttctggct tgctcgag 198

```

<210> 202  
 <211> 471  
 <212> DNA  
 <213> Homo sapiens

<400> 202  
 gaattcggcc aaagaggcct agtttagata tatatctagt tcaagccaaa ttagtctggg 60  
 attagtaagg tttttgttaa cctaacttcc gaattactgt ggcttttaaata ctaatctttg 120  
 actttttccc caaaatctta ttgcattcag agtttctcat tttagattag cttgcatagt 180  
 aataaattat agaagtgaag gttgcactta ataagcctgt gcttattttt ccatttgagg 240  
 tgcataatc acataagggt gtattagtgc tcttttggtt tgaagctagt ggccatgttg 300  
 tatctgtctc tagtggtttc aagcctagca tctttttggt ttgttttggt ttgttttggt 360  
 gagacaagtt ctgcctctgt tgcccggtgt ggagtgcatt ggcacggtca taactcactg 420  
 cagcctcaaa ctcttggtacc caagatatcc taccacctca gctccctcga g 471

<210> 203  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<400> 203  
 gaattcggcc aaagaggcct atactggcct aaatcctgtc tcaaaaggaa gtgagtcagt 60  
 aagaccagac catgttttta tttttatttt ttattttatt attattattt ttgagatgg 120  
 agtcttgctg tgtcaccacag gttggagtgc ggtggccga tctctgtcga ctgcaggctc 180  
 cactcccggt gttcagcca ttctcctgcc tcagcctccc aagcagttgg gactgcagggt 240  
 gccaccacc acacgtctga g 261

<210> 204  
 <211> 211  
 <212> DNA  
 <213> Homo sapiens

<400> 204  
 gaattcggcc aaagaggcct agttttgcta agattgcatt gggtatgaaa aactgcagga 60  
 acatttagaa gtagattaag agaaaatgag aaatgggatt tttcttttcc taatctcttt 120  
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 ctgcttgtag cacagtcat ctttgagcac tgtcacccca ttcttcagggt tcccagccat 180  
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tgtataatca attctgtata ataccagaat tcaccttata aattatagtg atttttaaac 180  
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ccttgtcttt acaaaagaca aagcctaggc agtcagtcag tagcactaga gtattcctta 180  
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 tgcattgtgt agcaggagt tagggactgt gggcagcaga agaattaggg cgagggcagg 180  
 ggtccactc gag 193

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<210> 223  
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gggttagaaa atcctatatt ggacaatctc tattagatga ctaatattat taatctattt 180
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<210> 224

<211> 249

<212> DNA

<213> Homo sapiens

<400> 224

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agagtgatca ttggggaaat tttcctctcc agccttattt tgaccttttg aaacagcaac 180
aaagactgcc tagtcaaata actccttagc tgattttacc ctcaaatacg ttttcgtact 240
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<210> 225

<211> 269

<212> DNA

<213> Homo sapiens

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cagttattta ccctgtccca gaggccatgt tttgcctggt gtcacttggg atgcttctct 180
tatgcaataa tattttgtat gaaggtttct cccaggcact gtgcttggaa tcttacacca 240
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<210> 226

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<212> DNA

<213> Homo sapiens

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tatgcgttgt tcatatatat atatattttt ttctacattt atttttcttt ctttttttaa 180
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<210> 227

<211> 215

<212> DNA

<213> Homo sapiens

<400> 227

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ccttcaagac aacttgtccc tggaaaccaa atcacccttc tctctgctcc cacaggaccc 180
tgtgcacatt tatatccgag tactcaggtc tegag                                     215
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<210> 228

<211> 237

<212> DNA

<213> Homo sapiens

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 acaagcaacc aaccattttg ctttgccctgg tgttgctctgt ttttagcaact gaaagtccctg 180  
 ggcagctctc tggacaatgc ggatgacgtc ctctcctgtc acaggtggga tctcgag 237

&lt;210&gt; 229

&lt;211&gt; 101

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 229

gaattcggcc aaagaggcct agtttgtgtg cagggataat gttatctgtc ttaggaggca 60  
 atgggggtcaa tctgggttact tggttgaccc cactgctcga g 101

&lt;210&gt; 230

&lt;211&gt; 235

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 230

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 atgaattttt ttttttacac aaatgagttt tcattgggtca tgtttctttt tatttcttct 180  
 gtgtaggtgt aattgttatc tattgctgca gaacaaatta ccacataaac tcgag 235

&lt;210&gt; 231

&lt;211&gt; 344

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 231

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 cttctcttga cctctctttt ccatccatga agccctcagg cccttgccat tttttacca 180  
 cagaaaaactc atggctttctc cagaagcctg agtatctctc tttcccagca caaatggcag 240  
 catctctatc ctgccccatc tgggccactt cagcttctctg tagacacca agacagatgg 300  
 acagtgttgg agggaatcag gctttgagga tccagagtct cgag 344

&lt;210&gt; 232

&lt;211&gt; 323

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 232

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 caatgtgcaa tcataggtct ctgcagcctt gtattcctgg actcaagcaa tcctcctgcc 240  
 tcagcctctt gggtagctgg gactacaggt atataccacc atgcccagct tctttgtgtg 300  
 gtttttagtga cagagatctc gag 323

&lt;210&gt; 233

&lt;211&gt; 478

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 233

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agaatcgccct ggagggattt tgccttgaaa attaaattct gatatcaatt tctaaaatta 180  
 tttacaatat taaagttgaa atgaatccat cacacagttt ccttccaatg ttagtctttc 240  
 aagtgaacct actttcctat tagcagtcac ctaaaaacaa ataagcaaac aaacaggtaa 300  
 ctcatgtctt cctctgactc agtgtgagga aaggagcagg cagcatctgg tgacagctta 360  
 cttcagtgagg tctccatggt tcttcaccaa aaccacttgt gtttcctctt caagcaccac 420  
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<210> 234

<211> 119

<212> DNA

<213> Homo sapiens

<400> 234

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<210> 235

<211> 253

<212> DNA

<213> Homo sapiens

<400> 235

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 tatttggttg tcttttaagt gtgcctctga tatgttgac ttaaggagag gtcacacctt 180  
 gccagctgcy cttaccttac ctatacttgc caacctaggg gtctgctact gtcaaacaca 240  
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<211> 244

<212> DNA

<213> Homo sapiens

<400> 236

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 taagaccttt tggagactgg agctttctgt tccattaagt cttttgttta tactacaaat 180  
 tgtcacctca cttagtccag atgaaatctg ttactctaca aggaaggtgt tcatcaatct 240  
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<210> 237

<211> 171

<212> DNA

<213> Homo sapiens

<400> 237

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<210> 238

<211> 200

<212> DNA

<213> Homo sapiens

<400> 238

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 gggggttggt ctggcctact gggctgacat taactacaat tatgggaaat gcaaaagtgt 180  
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<212> DNA  
<213> Homo sapiens

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ggtgtctgag ccagctcca gagtcagcc cgcctccca cctcgaaggg agggacaagt 180  
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ctagggttag ggttgaat ttaaaataac atagtcagag aagtcatgaa ggaaaaatac 180  
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<211> 223  
<212> DNA  
<213> Homo sapiens

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gctgaaatag aacgcaatgt tgccaaatag aaaaatactt ttactgggac tgaagataat 180  
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aagtgccttc acactgtgt gcagccatca ccaccattca tctccagaat ttgttctcag 180  
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<210> 243  
<211> 268  
<212> DNA  
<213> Homo sapiens

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gaaagaagag atgaaaaata ccagtggat tagaaagaac tggcttcttg tagctgggat 180  
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<213> Homo sapiens

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gttttttacc atttgttttt tgttttggtt tgttttttta cctagagaag tgaaaggggc 180
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<210> 245

<211> 286

<212> DNA

<213> Homo sapiens

<400> 245

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tttgtccaga tctacttttg tgtcttttgg aagtgtttta tggtttactt catgtatgat 240
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<210> 246

<211> 222

<212> DNA

<213> Homo sapiens

<400> 246

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tagcatctct tccacaatca gacagggtcct catccagctc acaggaaagt ctcaagtaag 180
gtcatataaa taatgattac tagtctcttc ctcatcctcg ag                                     222
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<210> 247

<211> 254

<212> DNA

<213> Homo sapiens

<400> 247

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ttcgccgaca cgaggtgacc atctgcaatt acgaagcatc tgccaacca gcagaccata 240
gggtcctact cgag                                     254
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<210> 248

<211> 264

<212> DNA

<213> Homo sapiens

<400> 248

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actgccaggc agctgcctga tacatgggtc ctctgcctg ggagctccca gtctgagaca 180
gaaagggtcaa cagttctaat ggcaggagtt aagtgccatg agagcatatg ggaggggcag 240
ccttacagcc aggataagct cgag                                     264
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<211> 263

<212> DNA

<213> Homo sapiens

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 tttaccattt gatatactca cataagttca ggtttcagaa tatctataaa tttatgatta 180  
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<210> 250  
 <211> 113  
 <212> DNA  
 <213> Homo sapiens

<400> 250  
 gaattcggcc aaagaggcct aggttggtga caatggtatt gtggttatta ggacaattat 60  
 ttattttgccc ttggtgtcag aggcgtgtga accagagcaa ctctcatctc gag 113

<210> 251  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

<400> 251  
 gaattcggcc aaagaggcct agtgtagctt ggttttattt atgtccacaa atatttcaaa 60  
 aaaattacaa aatactcaaa tggagagaac acagaagtca cgattttctgg gtgtctactg 120  
 tttacactgt gttatctcat ggcaaaactac tcatatatac atttagcttc aagatatata 180  
 gaaacgtagc aaatccgagt gtgcacgctg cctctgccgc agtggagtga agctcaacct 240  
 cgag 244

<210> 252  
 <211> 291  
 <212> DNA  
 <213> Homo sapiens

<400> 252  
 gaattcggcc aaagaggcct aaatttatta aggggtagat cactttttaga aaaattgctg 60  
 gaagtaattt ttcattgatca ttttatctac attctaaaaa ttaggagaga gactgtgtac 120  
 aaagagtgtt ttttttagag ctttccttgt atttcaaatt gaataacagg cattctcatc 180  
 ataaagtttt taaaagaaag gcaaaagcaga ctttctgtag gaaatcattg acgttaaaat 240  
 agttataatt gtgaacagat acaacattta ttcattgaagg taattctcga g 291

<210> 253  
 <211> 195  
 <212> DNA  
 <213> Homo sapiens

<400> 253  
 gaattcggcc aaagaggcct agttattttg ttctgttctg tcatgtgccca caaaatatgt 60  
 acttttttca cttttttccc tttgtatata agttacgggt tacaactggt tcattctgaa 120  
 aacaacaaca acaaaagtcc attcatattt tttaacaatt gtataagtgc ccaagtaatt 180  
 cactacagcc tcgag 195

<210> 254  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<400> 254  
 gaattcgcgg ccgcgtcgac tttttgatgg aacacagttc tgtgatggga agctatccca 60  
 gtctcccatc cttgcaaaac tgctgcttag tactcagggt ttctctaggt tgttctggaa 120  
 catttataaa cttcttttggg tgtgaggatg tgctgccaca aggccaaaaa tcacattctc 180

tctctctctc ctctctctc taccattctc ctcagtgcc ggtggggaca gattccaccc 240  
actgggcctg ggaggaagaa aagcacctg gccccctct cgag 284

<210> 255  
<211> 219  
<212> DNA  
<213> Homo sapiens

<400> 255  
gaattcggcc aaagaggcct acttgggagg ttgtgtgttt ccaggaattt atccatttcc 60  
tctagatttt ctagtgtgt gcagagaggt gttcatagta ggcattgatt gatgatctgt 120  
atttctgtag gatcggttgt aatgttacct ttgtcatttc tgattgtgct gatttggatc 180  
ttctcccttt tttttattaa tttcgtctag ggactcgag 219

<210> 256  
<211> 180  
<212> DNA  
<213> Homo sapiens

<400> 256  
gaattcggcc aaagaggcct agcatactgg tacatgagag cagtagtggt gtttgccttt 60  
atcttcaacc agggagctat ctggcacctt ttgtgctcct ggcttttttc aatcatagca 120  
ctattgcac tcctagctat ttcttttgcc cagcagggtg atattgagtc ccatctcgag 180

<210> 257  
<211> 500  
<212> DNA  
<213> Homo sapiens

<400> 257  
gaattcggcc aaagaggcct aggaagagac tagaagaaca gcacgccag caattatcac 60  
tactcatagc tgagcaggaa agggaacaag aaagactgca aaaggaaata gaagagcagg 120  
agaaaatggt aaaagagaag aaggcaatga cagcgggaagc ctctgagttg gacattaaca 180  
atgcagtgga attagaatgg agaaaaataa gtgactctag ttgtctggaa acaatgctgt 240  
ctcaagcgga ctactccat acttcaaatt caaatagtct tggtttcaca aattctgcca 300  
tgcaatatag ctttgtttct gcaaacgaag caccattcta cctctgggga tcatcaacta 360  
gtggcttgac caaactctca gtaacaaggc cttttggaag agccaaaact agatggcttc 420  
aagttttttag tctggaata caagcaaat ttaacaaaat aactgcagtg gcaaaaggat 480  
ttcttactcg tagtctcgag 500

<210> 258  
<211> 302  
<212> DNA  
<213> Homo sapiens

<400> 258  
gaattcggcc aaagaggcct agtgcaaat taaagaattc catgataact atgttatctt 60  
ccatttgcac gtgcatttgt ctatcgatcc ctaaaatata tcttaaatta gtctgctttt 120  
ctccactttt cccctccat tttattttta tttatttatt tattttgaga caaggcttag 180  
cactgtcgcc caggctggag tgcagcaaca caatcacggc tctctgcagc cttgaccttc 240  
caggcccaaa tgatcctccc gcctcagcct cagcagtagc tggggcggga ggaccactcg 300  
ag 302

<210> 259  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 259  
gaattcggcc aaagaggcct ataaagatta ttatattaat tcaactttga tctgatatat 60

```

cacttaaaact aaaggggtgt gtgtggtgta tgcttgtttc ctatttctgc tctttaaaga 120
tactttgaat caataaaacc attagtctac aaatcaaatt gtgaacttaa tctctagaaa 180
gagaatataaa ctgagccatt tataggaatt taggttcaag tacaggatat atgaaatctt 240
ttcccgatgat ttcagaatgt acttaattca cagatcactc gag 283

```

&lt;210&gt; 260

&lt;211&gt; 279

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 260

```

gaattcggcc aaagaggcct actggcctca agtgattctc ctgcctcggc ttcccaaggt 60
gctggaatta cgggcatgag ccactgcgcc tgaccagaaa agtgggtttac ctgataaagt 120
ggcatttgaa ctgagatctg aaagtagaat atacttgaag tagatgaaga gaggaatgac 180
aatattttat agcagaaagg acagcagccc ttggtggcag gaggcattgt gtattccagg 240
aacgaaagac caatgcagct gtagtggagc accctcgag 279

```

&lt;210&gt; 261

&lt;211&gt; 208

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 261

```

gaattcggcc aaagaggcct aggtttgcct ctccttacag cacagagtta tcatcattat 60
ccatacacc ctagaattca gaacaatctt ttccctagtag tagaattggg gcatcatgat 120
tatttacatg tccatcttgc aattaataaa aatactaaca atactaacat acgttgggtca 180
ggcaggcact gcacaaagcg acctcgag 208

```

&lt;210&gt; 262

&lt;211&gt; 160

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 262

```

gaattctggg actaaattct gtaacatctt cgtggatcgt tctgctactg tgggaaagac 60
agcattttgt tacagcagag accagaattg agaaaaccag aataaaaaaa ctgttcccta 120
ggccatgaag gccggccttc atgccctagt tctccctata 160

```

&lt;210&gt; 263

&lt;211&gt; 226

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 263

```

gaattcggcc aaagaggcct acgttgaagg acaccagctg cggaatttgc ggctttggca 60
gattgaaatc atggcaggtc cagaaagtga tgcgcaatac cagttcactg gtattaaaaa 120
atatttcaac tcttatactc tcacaggtag aatgaactgt gtactggcca catatggaag 180
cattgcattg attgtcttat atttcaagct aaggtcccca ctcgag 226

```

&lt;210&gt; 264

&lt;211&gt; 201

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 264

```

gaattcggcc aaagaggcct aatgccatcc cctctgcctg gaatgccctt ctgcatgaat 60
gcctgtgaaa tggtgttgc cctttgtatg gcctggcttc cgtgggtggc aggaatctct 120
tctttcgtgg tattcctgtc atctttgtgc atcacagtca gctttgtatt cctagcttgt 180
aagctacggg agaaactcga g 201

```

<210> 265  
 <211> 229  
 <212> DNA  
 <213> Homo sapiens

<400> 265  
 gaattcggca aagaggccta gtatgtgtgc tttctttgcc ttctatttc ctttcaaaga 60  
 aatctcttgt aaattacaaa actgtgaatt gggttgccaa aaactgttgc ctttcgttag 120  
 atgcttcaaa cagtgtaaat cctatactgc accctgtcca cctctgtccc ctccctccctc 180  
 ccctgagagt gaggacctca tccgacctag taattaccat tcgctcgag 229

<210> 266  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 266  
 gaattcggcc aaagaggcct actttaacca tccctcccta tgaagtataa aaaaggtact 60  
 gccagctggg tgcagtggct caccgctgta atcgcagcat tttgggaggc cgaggtgggt 120  
 ggatcacctg aggtcaggag ttcgagacca ggatggccgg catggcgaaa ccgcgtctgt 180  
 actaaaagta caaaattagt tgggcgtggg ggtgcgtgcc tgtgggtttca gctacctgga 240  
 gaactcgag 249

<210> 267  
 <211> 276  
 <212> DNA  
 <213> Homo sapiens

<400> 267  
 gaattcggcc aaagaggcct agtaggggag tgcgtgaggg cggcgctgat tgataggagc 60  
 caaggccaat cataacgatt accgtagact ggaaggcgga ccaagaatac gctaattgagt 120  
 tgctaatttt gacagatgtc cttcggcctt ctccgtgtgt tctccattgt gatccccctt 180  
 ctctatgtcg ggacactcat tagcaagaac tttgctgctc tacttgagga acatgacatt 240  
 tttgttccag aggatgatga tgatgatgag ctcgag 276

<210> 268  
 <211> 312  
 <212> DNA  
 <213> Homo sapiens

<400> 268  
 gaattcggcc aaagaggcct agtcttcaat aaattgatta gtatcaaagg gaagatctta 60  
 aatcttggag cttttctttt tggaaaccttt taattcagtt cctgtcacac cttcctttga 120  
 tttttaaaaa aatctcccc taactgttct gggatctcac tctgtctccc acacgcctaa 180  
 caccatccct ctccacattc acccaaagg agacactggg ggaggcaagt gtatggaatg 240  
 tctttgcatt tagatgctgg aactctgaca tcatctcttt tattcataag tttattcaac 300  
 actatactcg ag 312

<210> 269  
 <211> 187  
 <212> DNA  
 <213> Homo sapiens

<400> 269  
 gaattcggcc aaagaggcct agagtactg aagcacatca aacacaaaga cagtaattat 60  
 cagaggtgcc ttcttacatc agcgatttat gactccaag gccgcagtgt ggctgtgcaa 120  
 aaacaaatat ctaaagctgt tcacagcaac cctggtgacc ctgctctttg gtctctgttg 180  
 tctcgag 187

<210> 270

<211> 328  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (31)

<400> 270  
 gaattcggcc aaagaggcct actgcacggt ntgagcatgt acccatttaa ccaaaactta 60  
 aagtataatt aaaaaaaaaa gaataagaat acaacaataa aaatacatat aagaaacaat 120  
 ggagtataac agctatttac atagcatttg catcatatta ggtattctaa ctcatctgga 180  
 gatgattgaa agtatatggg aagatgtgcc aagggttatat gcaaatacta tgccatttta 240  
 taataggggac ttgagtatgt gcagatttgg gcattctctg gaggtcctgg aaccagtcce 300  
 ctccgatacc aaggtacggc aactcgag 328

<210> 271  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<400> 271  
 gaattcggcc aaagaggcct agcagtaatc tctatgatgt tctctccttc tctgcttcaa 60  
 cccagagccc tcccttcccc acctctcaga ctctcccact gtgccatgtg gaagtgtcac 120  
 aacacaacca catgctctgc tgtatcatct ccttgctctg aaaagctctg tttgcctccg 180  
 acttcattga gacccatcaa actcgag 207

<210> 272  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

<400> 272  
 gaattcggcc aaagaggcct acaaaatatac attattccgt aatttcctaa agtgcacttg 60  
 tatgtattga aaagattata gatagaaaca tacataactt ttaaattgtt tctatgcgga 120  
 atttctcatt atgtccagca tgtggtttac catgtttatc atctcctggt gtcttaaggt 180  
 caggggttgc aacaaggag gtcaaaattg gccggggctg agcacaaata cacaccaca 240  
 gcccttcagt gacctcaggc agcaagatgc ctcccacctc cccccaacac ccaagctcga 300  
 g 301

<210> 273  
 <211> 149  
 <212> DNA  
 <213> Homo sapiens

<400> 273  
 gaattcggcc aaagaggcct aggcacgctc tcctcctacc cgaccaacct ccctaccacc 60  
 tgaaagcctt caacctgcgc atcagcttcc cgccggagta tccgttcaag cctcccatga 120  
 tcaaattcac aaccaagacc tgctctcgag 149

<210> 274  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 274  
 gaattcggcc aaagaggcct aatctacttt tatctataca gtacacatag aaggctatgt 60  
 gactatttag aattcaatgt ttgtttacta gttcatcttt agcttacatg ttcattagtt 120  
 ctgagtagaa ccaagaaaaa ctaattgaag agtatatgct tatgtattat ctcttgctgt 180  
 gatttaacca atcttgttac atgtattact aataaaagtc cccagctcga g 231

<210> 275  
 <211> 291  
 <212> DNA  
 <213> Homo sapiens

<400> 275  
 gaattcggcc aaagaggcct aatctattca aactataaga agattacctg ctgacatacc 60  
 tcaatatttc tatagaaatt gcgattgata ttccaattta agggagtaat catctagaag 120  
 agacatatac aactggtgag aaaacacatt tggctcggca cacttggtta catagtacgt 180  
 ttatatttat gaatgacgaa cagcatgaca tctgaagaca acatcatcaa gagaaagatc 240  
 caggatgaac taaaaacaaa ccaaaacaaa tcaaccctgg agaaactcga g 291

<210> 276  
 <211> 271  
 <212> DNA  
 <213> Homo sapiens

<400> 276  
 gaattcggcc aaagaggcct acgtcatcat agctcacggc agccttgaac tccagggttc 60  
 aagcagtcctc tctgccttg gtcccctgag tagctggcac tacagacata cgccaccaca 120  
 cctggccttt tttttgagag gagaccttgc tgtgttggcc agcctggtct tgaactcctg 180  
 gctcaaatg atcctcccaa agtgcctgga ttacaagcat gagccaccgt gccagccca 240  
 cttcataaat tttagtcatg caatgctcga g 271

<210> 277  
 <211> 233  
 <212> DNA  
 <213> Homo sapiens

<400> 277  
 gaattcggcc aaagaggcct aaataaacag acgctgtggc tactggagtt cctcctggct 60  
 ccttgggtgag agtagagagg taatctcggt tttccaatat aatcttttag gtgtttgcct 120  
 caggtacctc ttggaagtag acactgagga tttcagtttg tttgacttcc tgccagctga 180  
 gttcaagagg acaagctaat gaatacctta tgtttcttgc acacatcctc gag 233

<210> 278  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 278  
 gaattcggcc aaagaggcct agtgattatt attaaggata gtaacccttt ggcatattgg 60  
 ctgcaaatTT ttctcctaaa tttttactca ctttctagct attggctttg atgtttctga 120  
 cataaagaga tttttaattt ttatgtgtta tatctttgga tcttttctt ttttatttct 180  
 ctcgttatct ttacacttag aaaattctca tgtacgccag gtgcgatggc tcatgcctgt 240  
 aacccagca atctgggagg ccgaggatgg tggatcactc gag 283

<210> 279  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 279  
 gaattcggcc aaagaggcct acagagataa tctggcttgg tttaccccat aatctaattt 60  
 cagaaaaagaa agctttattt taacactcat ctgaatcaac attaaagcct tttctctcaa 120  
 agcgtttatt gagaaactca aatgaatata ctttttgaat tactgtcatc aaaagtgtac 180  
 ggcttctctg gctgcttgtg tcaaatggaa ccggacctcg ag 222

<210> 280  
 <211> 347

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 280

```

gaattccgcc aaagaggcct agtaaatcca ccacaaaaat tattaatcct cttgagagaa 60
acgtgaaacg ccacaaaaat agagaaaatt cagggtctgta tgcctggat cgtgttggtgta 120
ttttcagaga acatcccgcct tctgaagctg ctgcagctcc ctcttcaggg atcacactgc 180
cgtcacccac tctgcactgg ggcgtttcct actgcgcctc gtgctggcgg acgcagctgg 240
gtgcagaagc tgtggggtcg gagaggcgtt tggagaaggt ctgtggtgca gtgtgtgaaa 300
attcaggtgc tagaagccta ctggtagaaa aacccaaaaa gctcgag 347

```

&lt;210&gt; 281

&lt;211&gt; 159

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 281

```

gaattcggcc aaagaggcct accaactctg gacaaattga tgacccccag gagcagcaca 60
gagtcacatc cagcaacctg gccctcatcc aggtgcaggc cactgtcgtg gggctcttgg 120
ctgctgtggc tgcgtcgtg ttgggcgtgg tgtctcgag 159

```

&lt;210&gt; 282

&lt;211&gt; 207

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 282

```

gaattcggcc aaagaggcct aatttttggg ggtttttagtg atcagtaatc aaatttgtac 60
ttattatgct tgttcaggta atttacttga ctgttctatt tgtttgtcca aaagataaaa 120
tgatgagaga gattcgagag gtctttgatc tgtctccctt ttaagaaatg aagccagctg 180
gtaatgtata ttcaggaccc tctcgag 207

```

&lt;210&gt; 283

&lt;211&gt; 328

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 283

```

gaattcggcc aaagaggcct agagtacttt tgcataatatt atttaacccc tccaacagtg 60
ctttgaggaa gataactatt tttatcccaa tttgctcgtg gggaagattg cttgaagtca 120
cactaaatag tagagccaga attcaaacca aagctatctg atccagttcc taccattctt 180
aaccattctg ctaatttcca gaagtccagc tgataaagtg taaaacaaaa gttgtttgtt 240
gctgttacca agaaaatata agggaaatgct ttctactaat acatcagcag cctctcttct 300
tcttccccctc tctctccta ctctcgag 328

```

&lt;210&gt; 284

&lt;211&gt; 323

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 284

```

gaattcggcc aaagaggcct agtggagaag aagaaagcca ggatccccac actaccaacg 60
atcagaagtt tgcccaacag gaagagggaag tcagtaactt tatccaggac agccactctg 120
ataatgtttc tcatgagcag gaagaaggca ttcttgccg aggtgcagaa attggtgccg 180
tagatggcaa tcatgatgta ggcattccta ttaaggaatt tgatgaactt ctccaggcac 240
cagaagcagc atttgagaca ggtcatgagg cacttggaac acttgttctc tgcagcttct 300
agccgctgat ccaggctactc gag 323

```

&lt;210&gt; 285

&lt;211&gt; 410

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 285

```

gaattcggcc aaagaggcct accacgatga cagattacgg cgaggagcag cgcaacgagc 60
tggaggccct ggagtccatc taccctgact ccttcacagt attatcagaa aatccacca 120
gcttcaccat tactgtgacg tctgaggctg gagaaaatga tgaaactgtc cagactaccc 180
tcaagtttac atacagtga aaataccag atgaagctcc cctttatgaa atattctccc 240
aggaaaatct agaagataat gatgtctcag acattttaaa attactagca ttacaggctg 300
aagaaaatct tggatgggtg atgattttta ctctagtac agctgtgcaa gaaaaattaa 360
atgaaatagt agatcagata aaaactagaa gagaagaaga aagactcgag 410

```

&lt;210&gt; 286

&lt;211&gt; 387

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 286

```

gaattcggcc aaagaggcct atgcggtttc aggctttatt aacaaacggt gtaaaaaacc 60
agacggatct ggaggaaggg acagggctgc ccgtctcagc tctcaacctt cccagagagg 120
ggccaggcct ggcagccctg tgcgtcgcgc ctccaaagca gtcaaccttg tccccccaa 180
ggacaggcat ctgacccaat ccaggtccca gggaggcgga gtcgcaaac ctaactctgg 240
ggtgtattct gtcggcctc ctctccccc cccagatag ctctcccagc ctggggcacg 300
gacagcacag actttgcaga catcacccgg ggaggtttct cagtgcagac aggagctgag 360
gtaggggttg gagaggctga cctcgag 387

```

&lt;210&gt; 287

&lt;211&gt; 369

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 287

```

gaattcggcc aaagaggcct aaaagtatct actagaataa taattccctg gccctattgt 60
cctttatttt aaaaactatt ctggtatatt gctacatttc tttttctcta caaacttaa 120
attattttgc cactttatcc ttctaaata aaccatatcc gtttttatt tagtgaagtc 180
acattgaaag tattaaactgt ttgcataaga tattcttgta atatccagga tttcttata 240
gaactgagat tttttaaaaa ttattttctg tctcagtaaa gctttttct acacagatat 300
ctaaatatgt cacttaagge aattactagt tgtttatttc atgtaatat attccgggt 360
gctctcgag 369

```

&lt;210&gt; 288

&lt;211&gt; 211

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 288

```

gaattcggcc aaagaggcct agaaaagttt ccctgctcag atttttctact gtgctgcact 60
gaagtgtcgt ttgagtgttg ccccatcaca gcaaatgtat gttacttatt tccacacata 120
acagattatg ctttcattaa catcccagct gctgcatttc tcttcagct ttttaacttc 180
cgtaaattca catctttaca tgttactcga g 211

```

&lt;210&gt; 289

&lt;211&gt; 581

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 289

```

gaattcggcc aaagaggcct aggaatagca aatagaagtg ctagtattta ctagatgcag 60
tgattgctac agttggtttt aagtaaaaca gattgttttt gattattttg aaatcaggca 120
ataatatata atgctgttta cagttcttta aaaaatatgt aacttaaaaa ctcagattgg 180

```

```

gaaggggtaa caatctgagt ttttcttttt ctctaagtg tctgtgaaaa tcttttttta 240
agtctgttcc acttcaggta ttatcacaaa tgtttgattt ctatatgtat gccttaagtg 300
atatatgaca cttttttttt cttgactctt ccttgcgga aatttcattac ttgttcatag 360
tttgaatcta agaaatattt gcttttcata gtcagcaggg ccaaaacttt ggtcttgaca 420
actttttgtc aggcattttt acatatcgac agtgtttttg cataaactgt attgcttttg 480
caagtatata gtaaattttt ttcttaatct tcagatgtta tagtatcaa aattcaaaga 540
cctaagtttt aaaaatgtaa ttgtttgcag taatactcga g 581

```

&lt;210&gt; 290

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 290

```

gttctaactg ctttcttttt tctcacagag gtggcttatg gcagattttt cctccttcaa 60
actccaaaaca taatttttaa gactatgtgc cagtggactc ttcccttata tctctgcacc 120
acaagttggt ggatgttttc tcttctctcc ttatgtctac ctaccaacc tcgctcatca 180
tttggccctt atccttccct gtacacctac cttcagattt ctgcttacac ttgatttca 240
gagcttttct ccccgctcct cgag 264

```

&lt;210&gt; 291

&lt;211&gt; 151

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 291

```

gaattcggcc aaagaggcct acgaatacct tcatttacct gtgtcttctg ataacacctc 60
tcagaaaagct atagttcttg aaagtttcta taggatttct aaaatttcaa atatgcagtc 120
acttaaaaaa aaaccacacc acgtactcga g 151

```

&lt;210&gt; 292

&lt;211&gt; 476

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 292

```

gaattcggcc aaagaggcct attacctgta gtttgctttt tattggatat ctatttatta 60
tatatacata cttttaatga agcataataa atatatgaga atgtgcacat atcaaagtca 120
caactgtgcc aattttttaca ctgttcactt ttgtaaaca tactcagatc aagaaacaga 180
acattagcaa taagaacata gcaacaaagt gccttctcgt cctccttctt tctagttaact 240
gcttgctctt tcaaaagtta cccttgctga cttgtaacta ctagactagt ttaatctatt 300
tttggacctt atataaatgg aatcatgcaa ttatatatat atatttattt ttatgactgg 360
cttcttattt tccacattat gtgagcaaga ttcacccata ttgctgtata taggttctca 420
ctacttcata atctatattg tatttcatta tgtcactaca acaaggttcg ctcgag 476

```

&lt;210&gt; 293

&lt;211&gt; 503

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (28)

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (93)

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (111)..(112)

&lt;400&gt; 293

```

gaattcggcc aaagaggcct agccattntc ctgcctcagc ctcccagatg gctggggctg 60
cgggtgcccg ccgccacgcc cgactaattt ttngtatttt tttttttttt nnagtagaga 120
tgggtttttcg ccgtgttggc caggatggtc tcaatctcct gacctcgtga tccaccgcc 180
tcggcctccc ggggtgctgg gattacaggc gtgagccacc gcgcccgcc ttttttagaa 240
ctttctagga atctgttttt ccaattgctt tgtatatcag gctctctgcg tctgtcagaa 300
ctgctactgc atgtataaca ctgtctttaa tgttcacttt tgtgttcaga tatttgata 360
ttcagttttg ttgactgtag ttttccttaa gggttttcct aaagcaatga ctatttatta 420
tgtttctcta tgttctaaaa cttagtgcac tgttgtctac cttatgctta ctgtatgtga 480
caacttttca gggaaacctc gag                                     503

```

&lt;210&gt; 294

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 294

```

gaattcggcc aaagaggcct acttgctttg tgtatctcat ttaatttggt ataaggtagt 60
actgatttta gcatattaat gcgatttctt ccttggtggt tgccttggtc tgtgttcaat 120
ccagagagct taaattgtca ttattttggg aagaaaacct gtatttttgt tagtttaca 180
tattatgaaa ttctacttca ggagaaactg ctgggcttcc tgtggctttg ttttcttagt 240
tactttttcc gtgcctgcct cgag                                     264

```

&lt;210&gt; 295

&lt;211&gt; 218

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 295

```

gaattcggcc aaagaggcct aaaagttaaa aataggcttt ttaggaactc actctttaga 60
tatttacatc cagctttctca tgttaaatat ttgtccttaa agggtttgag atgtacatct 120
ttcatttcgt atttctcata ggctatgcca tgtgcggaat tcaagttacc aatgtaacac 180
tgggcagcgg gccagcaaat ctccatgtgt acctcgag                                     218

```

&lt;210&gt; 296

&lt;211&gt; 243

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 296

```

gaattcggcc aaagaggcct agtagtaagc agtgtcctca atagcatcct ttaggtaaac 60
tctgagattc atttcattgg gctttttggt ttattattat tatttctcag tattgtttta 120
tagcatcaca ccaaagtaca gttcagtaaa agcagtctct acctgtctag cttgatagag 180
gtagattttt agagaatcca aggcaatgag taggtaatgt tcatctttca agcagttctc 240
gag                                     243

```

&lt;210&gt; 297

&lt;211&gt; 299

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 297

```

gaattcggcc aaagaggcct attttcttcc cctaaatgct tcatctccct acccctcctg 60
cagtgaacct aatgtcctcg atgactccca gggcctggcc gccgaggcca gcctctctag 120
gtacagtgtc aatgtacct gtctattggt gtctgtgctg ggaaactagc tgttccctgt 180
ctcctctgtc tctctgtctt ctctgtctct tctcgccccc tcttaataac tatttccatt 240
ccttgccctt tgttgttcat gaacatatga gcctggaagt caaaggtgta gcactcgag 299

```

<210> 298  
 <211> 221  
 <212> DNA  
 <213> Homo sapiens

<400> 298  
 gaattcggcc aaagaggcct agggtaataag aaatgagata tggtttttgg attcctggat 60  
 tagccatcta ctgggctggc agccctcaca tggctggcct gccctgtctc gtgagatgga 120  
 tcagccttga ggtgacctgt caggaaagga catttgggct ggaagtagca gaagcctctg 180  
 tgagccatcc ttcaggcaga actagtcagg agcagctcga g 221

<210> 299  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

<400> 299  
 gaattcggcc aaagaggcct aggaattaag gtcaaaactaa ttctcacatc cctctaaaag 60  
 taaactactg ttaggaacag cagtgttctc acagtgtggg gcagccgtcc ttctaataa 120  
 gacaatgata ttgacctgt cctcttttgg cagttgcatt agtaactttg aaaggtatat 180  
 gactgagcgt agcatacagg ttaacctgca gaaacagtac ttaggtaatt gtagggcgag 240  
 cctcgag 247

<210> 300  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<400> 300  
 gaattcggcc aaagaggcct aatgtaatga tgattggaaa aatgatgata gacatgatgt 60  
 accttgtcat cattatgctg gtggttctga tgagctttgg ggtcgccagg caagccatcc 120  
 tttttcccaa tgaggagcca tcatggaaac tggccaagaa catcttctac atgccctatt 180  
 ggaatgattta tggggaagtg tttgcggacc agatagaccg taagcaagtt tatgattctc 240  
 atacacacaaa gtcagctccc ttgctcgag 269

<210> 301  
 <211> 159  
 <212> DNA  
 <213> Homo sapiens

<400> 301  
 gaattcggcc aaagaggcct agtcgtccc tctgtttact cctttttttg atatattatt 60  
 ttcttgtccc tatctgtatt taatagactt tccttttttc atttctctc tctactgatt 120  
 tgagggtatga atactctgtt tctatttgtt atcctcgag 159

<210> 302  
 <211> 154  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (109)..(110)

<220>  
 <221> unsure  
 <222> (127)

<400> 302  
 gaattcggcc aaagaggcct agtgggggga acggcagctt gaagaaatga ctgttctctt 60

tctgaaattc ataattctat ttcctgtgac cccaaccgc aaagggctnn tttttttgga 120  
aagcctnaaa aaaaaaaaaa caccacgct cgag 154

<210> 303

<211> 210

<212> DNA

<213> Homo sapiens

<400> 303

gaattcggcc aaagaggcct aatttaagaa cattgaaatt acatcaagta ctctctcaga 60  
ctacagtgga ataaaattgc aaatcaactc ctaaaggcat ccccaaacca tacaaataga 120  
tgcaaatata ataatctgct cctgaatgat cattgagta acaaggaaat caagatggaa 180  
attaaaaaat tatttaaaat gagtctcgag 210

<210> 304

<211> 439

<212> DNA

<213> Homo sapiens

<400> 304

gaattcggcc aaagaggcct aggggatggt tggagagca gaaatattag ttggttttta 60  
atatgtacct tgtttgtact taaaaatagc aaggatgacc tctgttatgt aatggcagaa 120  
tgcttagcaa aattttttcc tgcagttatg tagaaaacac agctttcagt ccataaactt 180  
gtatatata ttaaggagat tgtcaagcaa agtgctaaag gtgccaggag cctatagtaa 240  
actgccagag tatttaggct atttcaagag attaggagtt gctccgtata tcctctcatt 300  
caagccagag ggcctctagg aagaggaaca aaaaatgaag aagagggttat gataaaaaga 360  
tttatggata tgacttttgt ctaatcgagc aaaaatctat agatggaaat ctatacgtaa 420  
ggcccacaaa gtcctcgag 439

<210> 305

<211> 564

<212> DNA

<213> Homo sapiens

<400> 305

gaattcggcc aaagaggcct atcgagagac tgcagctcga caggaatgct acccagaact 60  
gaagcctgtg cagtcacatca acgcccaccc ttccaactgc atctgtatca agtttgaccc 120  
catggggaag tactttgcc aaggaagtgc agatgctttg gtcagcctct gggatgtgga 180  
tgagttagtg tgtgttcggg gcttttccag gctggattgg cctgtaagaa cctcagttt 240  
cagccatgat gggaaaatgc tggcgtcagc atcggaagat cattttattg acattgctga 300  
agtggagaca ggggacaaac tatgggaggt acagtgtgag tctccgacct tcacagtggc 360  
gtggcacccc aaaaggcctc tgctggcatt tgctgtgat gacaaagacg gcaaatatga 420  
cagcagccgg gaagccggaa ctgtgaagct gtttgggctt cctaattgatt cttgagagga 480  
ggttgtaggg agaggaggcc cggcagagg tcttccctca tgtggttagt ttggtctgtt 540  
ctctcgagtg gggtaggct cgag 564

<210> 306

<211> 258

<212> DNA

<213> Homo sapiens

<400> 306

gaattcggcc aaagaggcct acttgaacag tcaagaacaa attaaagttt ccacggcaaa 60  
tttgttttca aaatgccgaa ttgcgaaaca attgctggct tcacgtttct gaataccttt 120  
aatagtttct ctgcgttgca gtttgtaagt ttccttgta tgacacagtc gataaataaa 180  
gaaacccagg tgatcaatgt ttccaatgcg atcagtaata accatgtgct catgaatcag 240  
ataggactga ggctcgag 258

<210> 307

<211> 352

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 307

```

gaattcggcc aaagaggcct aggggaaggtt ggttccccgt ctgtctccct gcctcttctt 60
cctctacggg tccctctgct ccacaggggt agaacatcaa tctgtgagag gaaggccagg 120
cggagggtgt acccactgcc ttgcaactggc cttctcccta gagggccggg aggcaggaa 180
agccatttcc tgtggggcca cagcactggg cacagttaa agtagcaggg ccagatatg 240
ccttgggact ccagtgtgag cctcgtcctt gttccagct ggaagggaag caccctcttg 300
cccaagacag gacactttgc tgcctggggc cagcacctgc tgaatcctcg ag 352

```

&lt;210&gt; 308

&lt;211&gt; 405

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 308

```

gaattcggcc aaagaggcct actcagggtca gggaggaggc aggggagtggt ggtctcccag 60
acccaacggt gagctcagag caagcttcac gcaggacgct ccgaaacact gtgtggaggg 120
ggctgtgttg tgggcacctt ggggcctgat tctccttctt ccgaacgggc tccttgatgg 180
cctggccaca cgggcagctc cccattggct gttaggacca gagtgtgaag aagaagtga 240
atataaatat gtatacatat ataaatata ttttaattac atgtcgtgtc acggtggctc 300
cagacatact gtttgcttag tttattccac tgcttgaag cgcttcttag ccaatctgaa 360
caacaacact ttaagctgtt tttctaaatg caggtgctac tcgag 405

```

&lt;210&gt; 309

&lt;211&gt; 207

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 309

```

gaattcggcc aaagaggcct aattggagga cagcccctgg gggttgatga gtgtggcatc 60
gtggcccaga tctcagagcc cttggctgct gcagacatcc cagcctacta catcagtact 120
ttcaagtttg atcatgcact tgtccccgaa gagaacatca atgggtgcat cagtgcctcg 180
aaggtcagcc aagcaaagaa gctcgag 207

```

&lt;210&gt; 310

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 310

```

gaattcggcc aaagaggcct attctggaac actatagtaa aggtatttcc tacttggctg 60
gcgcccacac tgataacttt ttctggcttt ctgctggctg tattcaattt tctgctaattg 120
gcatactttg atcctgactt ttatgcctca gcaccaggtc acaagcacgt gcctgactgg 180
gtttggattg tagtgggcat cctcaacttc gtagcctaca cgctagatgg tgtggacgga 240
tgcaaaactcg ag 252

```

&lt;210&gt; 311

&lt;211&gt; 227

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 311

```

gaattcggcc aaagaggcct agtgatttac cattttatc aaaaaatta gaagaagagg 60
acagaaatct agttgtcttc aggtccatt tgattgaggt gttattcctt tgtctttgaa 120
ttatatttta ggttaggccg aatggaaact ttatttggat tgcacatctg attatattgt 180
gaacatcaac cttgggtata ggaaatttca ttatgaggct actcgag 227

```

&lt;210&gt; 312

&lt;211&gt; 188

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 312

```

gaattcggcc aaagaggcct ataaaccgct gattgaattc tagaactgcg ctccagcctg 60
gacaatagag ggagactgtg tctcaaaaaa aaaaaaaaaa aatctgtatg gaggaggtct 120
tacaaatatt agtaaccaca ctttttgttt tttttcttca acttttcagt ttgggggcaa 180
cactcgag                                     188

```

&lt;210&gt; 313

&lt;211&gt; 412

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 313

```

gaattcggcc aaagaggcct agagcaaaat tactgagttg ctctttatcc ttctgttgac 60
tgtagacac acatttttcc tcagattgca ttatttgatg cttacattgc attttttttt 120
tcttttgaga tggagtgttg ctcttttttc ccaggctgga gtgcaatggc gtgatcttgg 180
ctcactgcaa actccgctc ccgtgttcaa gcgattctcc tgcctcagcc tcccaagtgg 240
ctgggattac aggtgtgcac caccatgccc agctaatttt gtatttttag tagaaatggg 300
gtttcccggt gttggtcagg ctgggtctaa actcctgacc tcatgtgatc caccgcctc 360
tgtctcccaa agtgcctggga ttacaggcgt gagccacgac tctaggctcg ag 412

```

&lt;210&gt; 314

&lt;211&gt; 230

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 314

```

gaattcggcc aaagaggcct agattaaatt agttaccagt aaataataag tttgttttgt 60
gaatgcataat gtttattgtg tgtttattta tttatttatt ttctgcaggg gacaggctct 120
taagtgtaca ctgggtggcc gcctgccaac tccgagtggc tccctcccc acacaaatgt 180
ttattgatct ttttccctcc agtaatgtgt taccaggtgc ttccctcgag 230

```

&lt;210&gt; 315

&lt;211&gt; 259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 315

```

gaattcggcc aaagaggcct aagcttttac agtggactct ggtattttat agttctccac 60
tggcagctga aatacgtgcc acagtctcaa tcggcaggca ggacaactta ggacataatt 120
tattaaaaag cagattcttt tattagatta aatagtaaac aaaaatgattc aaataatggg 180
ttatttacat ttctgcatcc ttggagtaaa cacctacttg aagcataaag ctagagaaga 240
aatcaaaacg tctctcgag                                     259

```

&lt;210&gt; 316

&lt;211&gt; 217

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 316

```

gaattcggcc aaagaggcct agtgacatca tatgagtttt cccaaaagtt tcctcctaatt 60
ttgcctccca catatctctt ccctgatgtc cagaataatt tacgggtcctc tccccatcgg 120
gtgtgtgtgt gtttgtttgt ttgttttttg tgactgcgag gaggggagtg gacccctcaa 180
ccatgtgcgt gcccccactg ctgccatccc actcgag                                     217

```

&lt;210&gt; 317

&lt;211&gt; 251

&lt;212&gt; DNA

<213> Homo sapiens

<400> 317

```
gaattcggcc aaagaggcct accatcatca tctttgccac tgtcatgttt tatgctgaga 60
agggcacaaa caagaccaac ttacaagca tccctgcggc cttctgggtat accattgtca 120
ccatgaccac gcttggctac ggagacatgg tgcccagcac cattgctggc aagattttcg 180
ggtccatctg ctcaactcagt ggcgtcttgg tcattgccct gcctgtgcca gtcattgcat 240
ccaacctcga g 251
```

<210> 318

<211> 239

<212> DNA

<213> Homo sapiens

<400> 318

```
gaattcggcc aaagaggcct atggatatgg tattttatat ttgttttctg tcttgaatt 60
atagaaaata aaacgatata aaggcatttt atggtgtttg ttgatagctt attatattac 120
attgaaaagg aatcaaactg ctctcttgca ttctaacttc aatatttacc taaatgtttt 180
ttgtgtctgt ccctttattt ctgtttactc tggatatctg ctgctgtccc ccgctcgag 239
```

<210> 319

<211> 233

<212> DNA

<213> Homo sapiens

<400> 319

```
gaattcggcc aaagaggcct atcgaaaacc tgcacccttg cgtgtcctcc tagaccacaa 60
agaggcccaa gaaaaatcgg atttagtgtc ccttactgat gcattatcga aaacctgtta 120
gagtcctaag cgttctcctg ttagtattgg gaccttacca ctgtcctata aatatgttat 180
gccccaaaaa tgaagtggag ggccataccc tgaggaggagg aagggtatcc gag 233
```

<210> 320

<211> 307

<212> DNA

<213> Homo sapiens

<400> 320

```
gaattcggcc ttcatggcct agctgccctt ctctagtctt ggtggccctt ctctaattgtg 60
tctcttcttc ttaggcttgt ctgcacacag atgtgctttc tgcttatgaa tttaggagaa 120
ctacatccat aaattacatc acacctttcc tgctacatg caattttcct agacttcaaa 180
attttacaaa ccagagagat caagatgcac aggcttccac tcgatgtccc ttgctgtatt 240
ctgaggctaa aaagactaac actgatttag tggctgtctg caaggtaaaa gcattgcttt 300
gatcgag 307
```

<210> 321

<211> 353

<212> DNA

<213> Homo sapiens

<400> 321

```
gaattcggcc aaagaggcct aattaaagaa ggagaagcaa gcggatttca gagaggttgt 60
tcttcagaaa aaaaatggtt atttctttga actcatgcct gagctttatt tgtttattgt 120
tatgccactg gattgggaca gcatcacctc tgaatcttga agaccctaatt gtgtgtagcc 180
actgggaaag ctactcagtg actgtgcaag agtcataccc acatcccttt gatcaaattt 240
actacacgag ctgcactgac attctaaact ggtttaaatg cacgcggcac agagtcagct 300
atcggacagc ctatcgacat ggggagaaga ctatgtatag gcgcaatctc gag 353
```

<210> 322

<211> 213

<212> DNA

<213> Homo sapiens

<400> 322

```
gaattcgcca aagaggccta gaaaagagag tccttaatgg aatggctgaa ttcattgctc 60
ctactacttt gtttgtatat atatcctcat agtcatcaag taaatgattt ttcttcaactg 120
cttaccatgg acctgggacg ggtagataca tttaatgaat ccagattttc tgttgatatac 180
acacctgtca ccaacacgac ccaacttttc gag 213
```

<210> 323

<211> 182

<212> DNA

<213> Homo sapiens

<400> 323

```
gaattcggcc aaagaggcct aattgaattc catatatgac tggcggacgg gtcattgagga 60
tgctggcagt aatactcttg gtagtgtttt ggtttctcat tggctggact tcatctgtgt 120
gccagaattt ggagaaacag atttcactta ttggccaggg gaaaacaccc gatcacctcg 180
ag 262
```

<210> 324

<211> 263

<212> DNA

<213> Homo sapiens

<400> 324

```
gaattcggcc aaagaggcct aggcagcagg tgtggccagt ccctctgcca aggcctgtgc 60
cagagggggtt ggccagtttg agcctgggtc agcctcagca gcctatcccc atgtcctcta 120
tgcccctaat ttgcttcctc atcttgaggg gtttggggag aagttggcgt gccaccccc 180
caaccctga ggaggtgtag acccagctcg agagccgcaa gcactgaggc agggcctgag 240
actggacctg ggtgtcgctc gag 263
```

<210> 325

<211> 230

<212> DNA

<213> Homo sapiens

<400> 325

```
gaattcggcc aaagaggcct aggcgtgtaag tgtaaaatac acaccagatt tcaaagaata 60
aatatatgct aaaacaatag tttggatatt aaataccttt ggcctttgca acatttgaat 120
tccaacaacg gatgaacttt atataccatt tgatgaatat catctatttg gataatatcc 180
ttagtattta cagatttaat attccaagtg ttaatgtacc acccctcgag 230
```

<210> 326

<211> 206

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (71)

<400> 326

```
gaattcggcc aaagaggcct agaattgtcac agcatcttga cacaattttg cctatgcctt 60
tgatttttgt ngttgttgtt gttttttatc ttttgagacc agagtcttgc tctgtcaacc 120
caggctggag tgcagtggcg cgatcttggc tcaactgcaga ttctgcctcc caggttcaag 180
cgattcatgt gcctcagcct ctcgag 206
```

<210> 327

<211> 338

<212> DNA

<213> Homo sapiens

<400> 327

```
gaattcggcc aaagaggcct agtggtgagg agcctttaa ctagagccca cgcttacctg 60
tgaagctgtg acgtctccta atgtggttgc tttgcgtatt caacttagga catttggtt 120
tactgtttaa ccacggtttt gtttggttgc tacagtttga caacttaa gctgcgcag 180
aaacctctaa gttggaatt gaagctagcc actcagagaa acttgaattg ctaaagaagg 240
cctatgaagc ctcccttcca gaaattaaga aaggccatga aatagaaaag aaatcgcttg 300
aagatttact ttctgagaag caggaatggc atctcgag 338
```

<210> 328

<211> 200

<212> DNA

<213> Homo sapiens

<400> 328

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tgtttgcct atgttaaagt cttatgggta attttattta ttttatcttg ttctcttgct 120
ggttattggc agactcagtc tttctgtttt cacaagaac tcatgaagag gacgataggg 180
aaaccacagt gtcactcgag 200
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<210> 329

<211> 259

<212> DNA

<213> Homo sapiens

<400> 329

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ctagccgtaa taaaaaatt aatgtacttt atgttcttag ctcccacaat ttagcctaaa 120
tatttgccct agcatgctta tactgaatcc aagcaaacat tgcctagcc gttcctcttc 180
tttattttaa agcgttttta cctttctcag catcctgcaa gttacttcc ccttcctttg 240
ttctctctta cctctcgag 259
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<210> 330

<211> 248

<212> DNA

<213> Homo sapiens

<400> 330

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atctggtacc caatttcata gggtccattt tctaaacatt attttataag ctcttatctt 120
tgacgtcatt gcttttactt taggcatca acatttcctt ctgcactatt gttactgccc 180
tgccttatag ctttgagaat ctctcattg ccaagtggaa ccccatgttt tttagaaatt 240
tgctcgag 248
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<210> 331

<211> 137

<212> DNA

<213> Homo sapiens

<400> 331

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gaattcggcc aaagaggcct aatttagggt cgttttcagt cttgatacca cagagaatgt 60
tgcatttgat aacctacata tgttgtttca tgtgtatagc tgtatgtagc gggtcagtac 120
gtgatgcgga actcgag 137
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<210> 332

<211> 213

<212> DNA

<213> Homo sapiens

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cttttagaag tatcttttgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtca 180  
tatgcaaag acaaggcaaa atggcaactc gag 213

<210> 333  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 333  
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tacaggctcc aatggctttg ttttaccctg caacttttgg aatcggtgga cagaaaatga 180  
cgactttgca gcacagatct caggggcgatc ctgaggatcc tcacgatgaa cattacctgc 240  
tggccacaca gagctgtgtt ctcgag 266

<210> 334  
<211> 215  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (115)

<220>  
<221> unsure  
<222> (150)

<400> 334  
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accaaaactt tctccaaagc agtggtacca ttttacattc ccaccatcag tgcangtggg 120  
ttctgattct ctatatcctt gccagccctn gttattctac tgggtgtgaa gtggtatctc 180  
agggtggttt ggtttgcatt tccccccccc tcgag 215

<210> 335  
<211> 384  
<212> DNA  
<213> Homo sapiens

<400> 335  
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ttgttctgcc tggactgggt cttaaaccct ttctcctatc tctttctcct cttgatgtta 120  
aatgttactt tgtcatggaa tgtttaactt gtaacattta tatattgatt aattatacta 180  
ttatgtatgg ttacaatat tgaactggct gcgtgcccac agctctgact actgagttaa 240  
caggaagtac tgtagctgt ggaaggatata cagatcatca gcagtaaata catacaggcc 300  
tgaagcaacc tcaattcttg cctcctcaga agaaagaatt cactgagggt gcataaggca 360  
gaaggagaaa ccgcgatct cgag 384

<210> 336  
<211> 207  
<212> DNA  
<213> Homo sapiens

<400> 336  
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aagaatcacc acctttggca gaaaatgatg gtaattttta tttattttta tttatatttt 120  
tttgagacaa gatctcgctc tgtcaccacg gctggagtgc agtggcgtga tcacggtgca 180

ctgcggcctc aacctcttgg gctcgag

207

&lt;210&gt; 337

&lt;211&gt; 167

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 337

gaattcggcc aaagaggcct acaggaacat ctactgggga tgactgttag gcagcttgtg 60  
 atgatgtttt ttaaaaaacc taagtaactt ggggagacag agcatttcaa acccatatag 120  
 acacctatca tacctgtata tccctaata catggcgcaa actcgag 167

&lt;210&gt; 338

&lt;211&gt; 153

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 338

gaattcggcc aaagaggcct actcaggact ctctcaatga aactgttttt aaatttttct 60  
 ggtagatgct tgcagagcag agagtgggat ttcctgggtt tctatggctt ctttgcctgtt 120  
 gtctctgtat gtgagttcat accgcaactc gag 153

&lt;210&gt; 339

&lt;211&gt; 184

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 339

gaattcggcc aaagaggcct agccaaagaa catctgaggt aggtaacacc tgcattgtgaa 60  
 aaactgtgat atgaatctta ttataaaaa agtcataact aaaacccttc tagaccacaa 120  
 agttactgtg tgtttgttaa taatcttcat agtactattg gaatgctcaa tcagtcaact 180  
 cgag 184

&lt;210&gt; 340

&lt;211&gt; 226

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 340

gaattcggcc aaagaggcct agtcttctag aagttttata gttttagggt ttacattta 60  
 gttttcttca ttcttgagtt aatttttgca tatggtacag ggtagggatc aaagtctgtt 120  
 ttttggccta tggatgttaa attgttttg catgactttt tgcaaaagacc atccttttctc 180  
 cactgaattg tctttgtact tcaaaaatca gttgtccaca ctcgag 226

&lt;210&gt; 341

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 341

gaattcggcc aaagaggcct aattttgtat ttgaagatta tttatatcag gtattacttt 60  
 gtttttcccg ggatacatct gtgttgagtc actttgcatt caacagtgcc tcgccaccaa 120  
 aatcatacat aagaggaaaa ctaggactgg aagaatatgc tgtcttttac ccaccaaatg 180  
 gtgttatccc ttttcatgga ttttcaatgt atgttgcacc acgagctcga g 231

&lt;210&gt; 342

&lt;211&gt; 152

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 342

gaattcggcc aaagaggcct aggaaaagat aaaagaaaac tcttgagatt ttgagtggtt 60  
 gttggttggt gttttctccg ttcagtttct ttctttttat aacttggatt atgaaactaa 120  
 actttaaccc aaaattaacc ctgttactcg ag 152

&lt;210&gt; 343

&lt;211&gt; 235

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 343

gaattcggcc aaagaggcct acctgcccac aaccaactct aataaatttt ataacattac 60  
 tagtacgcac agatatatat gaataactaa aaaagttaa ggaagtata ttaccctta 120  
 ctacatatga cactgatga tattgctatt ctattttact cttttttatt ttttcagact 180  
 cggctcact atgttgcca gactggagt cagtggctat tcccaggtag tcgag 235

&lt;210&gt; 344

&lt;211&gt; 156

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 344

gaattcggcc aaagaggcct attggaacg ttttgaact agatcgtggt gatggctgca 60  
 cgacattgtg agtatacca acacctatgg attttaaact ttatttattt atttatttat 120  
 ttatttattt atttatttat gacaaagagt ctcgag 156

&lt;210&gt; 345

&lt;211&gt; 241

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 345

gaattcggcc aaagaggcct agggcacact ctttgctttg cttgcaattc cacactccca 60  
 cccatcataa catatttcgg aaaccttatt ccaattggc cttcaagctc aaatgtcaac 120  
 tctacttctc cagaagaagg gtatatatta catattcctt agtgttctag aagttcttca 180  
 ttcacacat cctgactgca ctgaaccac catggtatta tcagcaccag gcaatctcga 240  
 g 241

&lt;210&gt; 346

&lt;211&gt; 373

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 346

gaattcggcc aaagaggcct agtcgggtgt ggtggctcac ttgtgtaac ccagcagttt 60  
 gggaggccga ggcaggtgga tcacttgagc tcaggagttc aaaaccagcc tgagcaacat 120  
 ggtaaaaccc tatctctaca aaaagtacaa aaattagcca ggtgtgattg catgcacctg 180  
 caatcccagc tactcaggaa gctgaggag gagaatctct tgaaccagg aggtggagac 240  
 cagcctgagc cacatagtga aaccccatct ctacaaaaaa tttaaaaatt agctgtgtgc 300  
 ggtcacgcgc acctgtatgc ccagatattg gagggcagt ggggggtggc ctgaggtggg 360  
 aggatcactc gag 373

&lt;210&gt; 347

&lt;211&gt; 239

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 347

gaattcggcc aaagaggcct acgagcatga gtggggattt gtctctcatt ccctgggctg 60  
 gaagtacctt cctcctggct ctctgtgagg cccccctctt ttctctgttg tctgttttct 120

accagctcct gcttctccca tggggacttc tctgtcacct ggaatccctc tccccgcacc 180  
ccagctgact ctgagctctg ctaactctgt ccacccctgc caggcccttt ccaactcgag 239

<210> 348  
<211> 192  
<212> DNA  
<213> Homo sapiens

<400> 348  
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caggtaacgg ttagtagaat gaaacattcc atgaatgaca tgtaggttat taagcatgtt 180  
agaaacctcg ag 192

<210> 349  
<211> 279  
<212> DNA  
<213> Homo sapiens

<400> 349  
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attagcttca aaatcttcaa cagtgtcttt cttctctggc gactcttctc caggggtgctc 120  
catgatcact ccactccctc catctaggat gtgccttaaa gctgggtcct caggggaaca 180  
gacggtggtt ccactctcac tgctgtcttag gtctaaatct tctaagtaaa ggatcttggg 240  
ctgatgcatg cttttgatga atgttttctc cctctcgag 279

<210> 350  
<211> 245  
<212> DNA  
<213> Homo sapiens

<400> 350  
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attgcatgag aaataaaatt agaggacaaa cgttagtatc ttatttttgt aatataaaat 120  
taattaaaat tatattacta tcaacatctt atactatact ttttttttat tttcatgtga 180  
gcctctcaac aacctgtaag gcaggcaggg aagggtgaac tagtattact gcacatcccc 240  
tcgag 245

<210> 351  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 351  
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ttagccttta gagaattgtg agagaaacat gtttgaatat gaacttgtga gttcctatgg 180  
agaaaaaagg tcaatgtaaa atctagcacc aggatatatt tattagagat atgaattgta 240  
ctttcttaca ggagaacctc gag 263

<210> 352  
<211> 251  
<212> DNA  
<213> Homo sapiens

<400> 352  
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gaatggaaat gtagtcttag gccagcttta ggtttttgaa caggatagta gctatccgga 180  
gtcgatttgag ggccagagca ggcactgggg ttcggatcct gggcaaagt tccccagttg 240

agggtctcga g

251

&lt;210&gt; 353

&lt;211&gt; 302

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 353

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gaattcggcc aaagaggcct actctgtttc aggaagaggt gtcactcttt gcaaaggcaa 60
actcctcttt atctgggttac tcttctccca actcttaa atgtttctctg ccacgttcta 120
tttttagagct tttctctgtt ggagcagcag ccactttttt tgaggcccat ttaaaccctt 180
ctccagtcctg tttaggggac ttcagtagtt ctttgttgag catgcacccc acatgggtgcc 240
cactgccagg cactggggat gcagagacaa agagtccca ctcacccacc acagcactcg 300
ag 302

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&lt;210&gt; 354

&lt;211&gt; 207

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 354

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gaattcggcc aaagaggcct actttttcta attgatttgt ctttttctat atagtctaga 60
taccaatcct ttgttatgcg agctgcacaaa cctctcagac tgtttttctt tttttctttg 120
tttatgcagt cttgctatgt gtcatttttt tgctgtatgt ttttcttggt taggaaatca 180
tcctcatccc aagttcatat actcgag 207

```

&lt;210&gt; 355

&lt;211&gt; 175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 355

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gaattcggcc aaagaggcct acagtttttt tatgtttatt cctaagtatt tcttacttta 60
agatctcttag caaatggaag tgttttttaa ttttcgttta aattttttat tgtttatgga 120
aattcaatta atttttggtg ctgctattgc attgtgcaaa tccactgaac tcgag 175

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&lt;210&gt; 356

&lt;211&gt; 326

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 356

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gaattcggcc aaagaggcct actttaactg ggcaggcgcg tgctctgata aaacatggga 60
attttaatac taaaggaaga aaggagaggt gaatattctg ggacaacaag cagactctgc 120
cacaggcaat gaccacccta accctgggga agatgcagat gccttcccca tcatctaatt 180
aattcaccat ttattgagca tggactttgt gccagatatt gtgcacaaca cacaggttct 240
tccttttaggc ctctcctta cagtctagaa ggggcagaca gactgatgaa caccagggt 300
gctcagggtt cctggggctg ctcgag 326

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&lt;210&gt; 357

&lt;211&gt; 462

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 357

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gaattcggcc aaagaggcct aataaaata atgaagctcc tttttttact ttgctctgtg 60
actggtttaa aggttaagttt gttatgtctg tggtagattt tgccaggctt ctcccaacag 120
agtagaagtg atttggcctc ataacttcac agtgggttac cactttgttc tatgttctgg 180
ttttgtaaag gatagtactg gaatttgctc ctgaagacca atattgggtg aactcctgtc 240
agtatattgg taaaatgtag cagaggcagg agtttggatg tttggatggg attcccttag 300

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gattctacag ccaataaaga tcctatttcc tatgcatgtc ccaggaatca gtaatcctct 360  
 ttctactctgt tgggatgagt ctttttttgt ttctgttcag agtgggttact aacttcacct 420  
 tctttctca aaccgtcgat tgaattctag acctgcctcg ag 462

<210> 358

<211> 220

<212> DNA

<213> Homo sapiens

<400> 358

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 ttattcctta tggttttggc ccatctttca tgggttttatt tttatttata ttttaggttt 120  
 tgagacaggg tcttgcctcg ttcaccaggg tggattgcag tgtccaccgt cttggctccc 180  
 tgcaacctcc acctcttggg ctgaagcgat cccctcgcag 220

<210> 359

<211> 221

<212> DNA

<213> Homo sapiens

<400> 359

gaattcggcc aaagaggcct agttggggga caaattgaaa ctcttgcttc aaaagaaaaa 60  
 aaaaaagaat gagaccttct catatactgc tgggtgggaat atatggtaca gatataattga 120  
 ataacaattt gttactaccc aataatgtca aaatatgtta cagcaccag caatcccact 180  
 cctacctaca tgcctttaa actctcacac atggactcga g 221

<210> 360

<211> 223

<212> DNA

<213> Homo sapiens

<400> 360

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 agccacactc cagctaattga attattgttg ttcattttac agcatctcag atataaaaaa 120  
 tttggttgca tcttacatgt ctttttttcc tatcttgctc ctccgtgccc ttcctctgat 180  
 tcttggtgtc cccctactt ttattttagg ttcagaactc gag 223

<210> 361

<211> 226

<212> DNA

<213> Homo sapiens

<400> 361

gaattcggcc aaagaggcct aatttttttt tagttctttc tgttttccag gtaccgttct 60  
 cagtgtattg tacttagtag ctcatctcat tttcatgata cctccataag gaaggatat 120  
 tattgtttac attttacagg tgcagaaact gagcacaggt gcacaacatt cccaagctca 180  
 cacagctaatt aagtagagga acatgaagta caaggcctgg ctgcag 226

<210> 362

<211> 457

<212> DNA

<213> Homo sapiens

<400> 362

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 atgcattaaa acagtgtgtc ccaacctttt tggcactagg aaccagtttt gtggaagaca 180  
 gtttttttcat ggacctgggg tgggatgagg tgggtgatgg ttttaggatg attcaactgc 240  
 attacattta ttgtgcactt tattttctgtt attattacat tctaataat aatgaaataa 300  
 ttatactgct cgccataatg tagaatcact gggaacctg agcttggttt tctgaaacta 360

catgggtccca tctggagggtg atgggagata gtgacagatc atcaggcatt agattctcat 420  
aagaacacagg cagcctagat cctcccggc actcgag 457

<210> 363

<211> 356

<212> DNA

<213> Homo sapiens

<400> 363

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tttcccctag gggtaactgc aatttcattt ttttaataata cccaacaaag agctgtagct 180  
cctcctgtgc tgcagatcag tgtttatagg acagaatata atattctact atgctaactt 240  
taccttttac ccttttctta gcacgtgcac acacatgtgt gcacatactg tcagagtccc 300  
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<210> 364

<211> 213

<212> DNA

<213> Homo sapiens

<400> 364

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gagacagtgc cactctcgcc caggctggag gcagtggcac aaactcagct caccgcaacc 180  
tcacttccc gagttcaagc gattccccctc gag 213

<210> 365

<211> 280

<212> DNA

<213> Homo sapiens

<400> 365

ggtcattttt aaaattgggg acccccagat gtcagtattt gtagatattg tctcagggaa 60  
ctataagctg ggtgtaggca tttgggaact ggatgaagta atattttgct atgcagactt 120  
tcacttaatc catatttgta tttgttttat tttactttat ttttttgaga cagagtctcc 180  
caggctgggg tgcagtggta gaatcacagc tcactacagc cttgacctgt ccggcacgag 240  
tgatcctttc acctcggcct cccgagcagc gggactcgag 280

<210> 366

<211> 174

<212> DNA

<213> Homo sapiens

<400> 366

gctcagactc ttggaagggg ctatactaga cacacaaaga cagccccaag aaggacgggtg 60  
gagtgtgtc ctgcataaaa gacagtagat atgcaacgcc tcttgctcct gccctttctc 120  
ctgctgggaa cagtttctgc tcttcactct gagaatgatg ccccccttct cgag 174

<210> 367

<211> 532

<212> DNA

<213> Homo sapiens

<400> 367

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agtacaactg gtggagtctg ggggcggcgt ggtccaacct ggggggtccc tgagactctc 120  
atgtgcaaca tctggattca cttcagtga tttcggcatg cactgggtcc gccaggcgcc 180  
aggcagggga ctggagtggc tgtcttttat tcgctttgat tcaagtaatg aaaactatgc 240  
agactccgtg cagggccgct ttgccgtctc cagagacaat ttcaaggaca cactgtatct 300

acaaatgaac agcctgactg ctgacgacac ggctgtctat tactgtgcga ctgggaagat 360  
 agcagccgcg ggtaccccat ttgactattg ggcccgggga accctgggtca ccgtctcttc 420  
 agcctccacc aaggggcccat cggctctccc cctggcacc cctccaaga gcacctctgg 480  
 gggcacagcg gccctgggct gcctgggtcaa ggactacttc cccgaactcg ag 532

<210> 368

<211> 229

<212> DNA

<213> Homo sapiens

<400> 368

ggcctgatcg tgtctgtaga tgaaccatc aagaaccccc gctcgactgt ggatgctccc 60  
 acagcagcag gccggggccg tggctgtggc cgcctccact gagaggcacc ccacccatca 120  
 catggctggc tggctgctgg gtgcacttac cctccttggc ttggttactt cattttacaa 180  
 ggaaggggta gtaattggcc cactctcttc ttaccggagg ccactcgag 229

<210> 369

<211> 350

<212> DNA

<213> Homo sapiens

<400> 369

gagcaggagt acagtcttga agataacttc ctttaaaaaa ggaaattcat aaaatatcat 60  
 gcatcttcct tttttgacac taatggaaca atttaagtga atttcagagg gaagcagagc 120  
 ccctggaaag gctggtgtga taagggaagg ttaccagct ttctctgtag gcggtgtgtg 180  
 ggagcagaga gtggcattct ctgcatactc ttggggagaa gagtgggtga gacaggctgc 240  
 tcagggctgg ggcagagccc aggggaaggg gatggaaggg gaagaacagc ccttcaagag 300  
 tcctgcagaa attggtggaa gttattttaa cagaagtgtt cgggctcgag 350

<210> 370

<211> 155

<212> DNA

<213> Homo sapiens

<400> 370

ggacatagtc ccagcctggg ttgagagagc aaaaccctgt ctcaaaaaca aaacaaaact 60  
 cttctttaat atcaatttta ttgttttaga cagcgaggca ggtatttttt aacacatatg 120  
 ccactgctat gttttatatt cgtaccatac tcgag 155

<210> 371

<211> 228

<212> DNA

<213> Homo sapiens

<400> 371

ggttttctac ctaaaagggg aaaattttct ataaaaagat tccacgtccc tctttagaaa 60  
 aataaagcta ctttaaaaaa cccgtttatt ttgaaaccc caacaggctt ctcaaaaactg 120  
 ctgtcatttc taaatacgaa gtcttaaaaa atccacatgt cctcctcagc cagaggccta 180  
 tggacagcac aaaatacagg ggaatgtcgt ggtggcggct gcctcgag 228

<210> 372

<211> 268

<212> DNA

<213> Homo sapiens

<400> 372

ggacctcctg tgcaagaaca tgaacatct gtggttcttc cttctcctgg tggcagctcc 60  
 cagatggggtc ctgtcccagg tgcagctgca ggagtcgggc ccgggactgg tgaagccttc 120  
 ggagaccctg accctcaact gactgtctc tgggtattcc atcagtaatt cttattggag 180  
 ctggatcagg ctgccccccg ggaagggaact ggaatacatt ggatatgtct ttacaacgg 240

ggacaccaat tccaaccct ccctcgag

268

&lt;210&gt; 373

&lt;211&gt; 480

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 373

gaattcggcc aaagaggcct acctgggttg tgaattatgg cctggatttc acttatactc 60  
tctctcctgg ctctcagctc agggggcatt tcccaggctg ttgtgactca ggaatctgca 120  
ctcaccacat cacctgggtga aacagtcaca ctccactgtc gctcaagtac tggggctgtt 180  
acaactagta actatgccaa ctgggtccaa gaaaaaccag atcatttatt cactgggtcta 240  
ataggtggta ccaacaaccg agctccagggt gttcctgcca gattctcagg ctccctgatt 300  
ggagacaagg ctgccctcac catcacaggg gcacagactg aggatgaggg aatatatttc 360  
tgtgtcttat ggtacagcaa cctttgggtg ttcggtggag gaaccaaact gactgtccta 420  
ggccagccca agtcttcgcc atcagtcacc ctgtttccac ctctcctga agaggtcgag 480

&lt;210&gt; 374

&lt;211&gt; 271

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 374

gaattcggcc aaagaggcct actcaactgt tgctttaaaa tcttaatatt tccatcactt 60  
ataatttctg acgtagatga gagttctgac caccaccttt ttattactgc ttgaagccag 120  
tttaaaccaa caattacata ttcttcaaat ctgctttgaa gtaaagactt taccagagga 180  
agtaagtcta cacagcagcc aagttagata tactgctttt ctctcgtgaa actattgggt 240  
agaacaggaa ggcaatctac aacaactcga g 271

&lt;210&gt; 375

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 375

gaattcggcc aaagaggcct aaggatgttt gctagcttcc ccaccaccaa gacctacttc 60  
cctcactttg atgtaagcca cgggtctgcc caggatcaagg gtcacggcaa gaaggtcgcc 120  
gatgctcttg ccaatgctgc agggcacctc gatgacctgc ccggtgccct gtctgctctg 180  
agcgacctgc atgcccacaa gctgcgtgtg gatcccgta acttcaagct cctgagccac 240  
tgctctctgg tgaccttggc tagccaccac cctgccgatt tcacccccgc ggtgcatgcc 300  
tctctggaca aattccttgc ctctgtgagc accgtgctga cctccaagta ccgttaagct 360  
gccttctgcg gggttgcct tctggccatg cccttcttct ctcccttgca ccagtacctc 420  
gag 423

&lt;210&gt; 376

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 376

gaattcggcc aaagaggcct actgtctcgg tgccagtacc tctgggatgg cctcacaaaa 60  
ccgcgaccca gctgctgcca gcgttgccgc gggtcgaaaa ggagccgagc cctgcggggg 120  
cgccgcccga ggccctgtgg gcaagcggct acagcaggaa ctgatgatcc tcatgacatc 180  
tggtgacaaa ggaatctccg ccttcctga gtcagacaac ctgttcaagt ggggtggggac 240  
catccacgga gcagccggca ccgtatatga agacctgagg taaaaactct ccctagagtt 300  
ccccagcggc tacccttaca acgcggactc gag 333

&lt;210&gt; 377

&lt;211&gt; 271

&lt;212&gt; DNA

<213> Mus musculus

<400> 377

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gaattcggcc aaagaggcct actcaactgt tgctttaaaa tcttaatat tccatcactt 60
ataatttctg acgtagatga gagttctgac caccaccttt ttattactgc ttgaagccag 120
tttaaaccac caattacata ttcttcaaat ctgctttgaa gtaaagactt taccagagga 180
agtaagtcta cacagcagcc aagtgaagata tactgctttt cttcctgtaa actattgggt 240
agaacaggaa ggcaatctac aacaactcga g                                     271
```

<210> 378

<211> 377

<212> DNA

<213> Mus musculus

<400> 378

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gaattcggcc aaagaggcct agcggactgg agctgaaagt gttgattggg aaacttgggt 60
gattcttctg tttatttaca atcctcttga cccaggcagg acacatgcag gccaaaaaac 120
gctatttcat cctgctctca gctggctctt gtctcgccct tttgttttat tttggagggc 180
tgcagttagg ggcatcgagg agccacagcc ggagagaaga gcacagtggg cggaatgggt 240
tgcaccagcc cagtccggat catttctggc cccgcttccc ggacgctctg cgccctttct 300
ttccttggga tcaattggaa aacgaggatt ccagcgtgca catttcccc cggcagaagc 360
gagacgcgga tctcgag                                     377
```

<210> 379

<211> 390

<212> DNA

<213> Mus musculus

<400> 379

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ttgctcaatg ttctctccct ccgaccactt ccacttaaat aaagtcttta agtagctgaa 120
ggattaacag tctgggtggg ggcaagccat tgaactgaac cacgaggaaa gtatatatttc 180
ttcttttctt ttctcgccaa gttttcggtg gcattttagt aagctgggtg gaaaggctag 240
gaggcattgt tttctattat tctcgggtga agccttttcc cagagcataat gtctccggca 300
ggcagtggtg gttcttgcca agcatcagaa ccagtcctcca gggcctcccc acgccgatcc 360
atagtactgt acagaccac cggaactcgag                                     390
```

<210> 380

<211> 435

<212> DNA

<213> Mus musculus

<400> 380

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gaattcggcc aaagaggcct acagggaacca cacagaaaaa ggcctcgcta aagcaacaaa 60
cctgatcatt ttcaagaacc ataggactga ggtgaagcca tgaagtgtct gctgatctcc 120
ctagccctat ggctgggcac agtgggcaca cgtgggacag agcccgaaact cagcgagacc 180
cagcgagga gcctacaggt ggctctggag gagttccaca aacacccacc tgtgcagttg 240
gccttccaag agatcggtgt ggacagagct gaagaagtgc tcttctcagc tggcaccttt 300
gtgaggttgg aatttaagct ccagcagacc aactgcccc agaaggactg gaaaaagccg 360
gagtgcacaa tcaaaccaaa cgggagaagg cggaaatgcc tggcctgcat taaaatggac 420
cccaaggggc tcgag                                     435
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<210> 381

<211> 321

<212> DNA

<213> Mus musculus

<400> 381

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tgctgcacag aaactcgtcc gagagtgaag agaggctgaa gtaatagctc aagtagatac 120
```

atgccaacag tataaccaca aatgtcacca gccggcagct aatgtatttc atgattaaat 180  
 gactagagtt cttttttgtc ttcaagtact gctccacgat tgggtacttg aagtggcttt 240  
 cagatatctc ccacagactc tgccccacat tctcagtcac tcctgggggt ccagggtccgt 300  
 ctcttaggtc caaatctcga g 321

<210> 382

<211> 223

<212> DNA

<213> Homo sapiens

<400> 382

gaattcggcc aaagaggcct acgactacag acacagacgg tgccgccgag acttgtgtct 60  
 cagtacagtg tcagaagcaa attaaagaac ttcgagatca atgtttatct cttcagttat 120  
 tacatctggt cccagcttgg ccatgtacaa catgctgatt cttttcaacg ttttattttc 180  
 tttatttagc tttgttgcca aagcttcagc actttctctc gag 223

<210> 383

<211> 258

<212> DNA

<213> Homo sapiens

<400> 383

gaattcggcc aaagaggcct acagaaacat ctcaaggtag ctgggtccgcc cccacttccc 60  
 catctacctc ttgtctctcc cccaacacca ccaccacct ggctccctc cctcatgacc 120  
 gcctggatcc tcctgcctgt cagcctgtca gcgttctcca tcaactggcat atggactgtg 180  
 tatgccatgg ctgtgatgaa ccaccatgta tgccctgtgg agaaactggc ctacaacgag 240  
 tccaagggtc tccctata 258

<210> 384

<211> 207

<212> DNA

<213> Homo sapiens

<400> 384

gaattcgcgg ccgcgtcgac agtgaaattc ggtgttatgt taatggacaa ctggtatctt 60  
 atggtgatat ggcttggcat gttaacacaa atgatagcta tgacaagtgc tttcttggat 120  
 catcagaaac tgctgatgca aatagggtat tctgtgtgca acttggtgcc gtgtatgtgt 180  
 tcagtgaagc acccaaccca gctcgag 207

<210> 385

<211> 193

<212> DNA

<213> Homo sapiens

<400> 385

gaattcgcgg ccgcgtcgac acaagatgtg gacagctctt gtgctcattt ggattttctc 60  
 cttgtcctta tctgaaagcc atgcggcatc caacgateca cgcaactttg tccctaacaa 120  
 aatgtggaag ggattagtca agaggaatgc atctgtggaa acagttgata ataaaacgtc 180  
 tgaggatctc gag 193

<210> 386

<211> 212

<212> DNA

<213> Homo sapiens

<400> 386

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 gtgtcccttc ttattttctt aagatattha tataacagat gcataattac agatatttat 120  
 gtaacagatg cataataatc ctaatatcca tattgggtac tctttcctcc tttccaaatt 180  
 tgtttagctt tccaccaccc cccagctcg ag 212

<210> 387  
 <211> 227  
 <212> DNA  
 <213> Homo sapiens

<400> 387  
 gaattcgcgg ccgcgctcgac gtgaaaggta gaagggcagg gcagagtatg tactgttttg 60  
 tgtgtgtgtg ttattttttg agactaagtc ttgctctgtc acccaggctg gagcgggggtg 120  
 gtgtgatctc ggctcactgc aacctctgcc tcccagggtc aagcaattct cctgcctcag 180  
 tctcctccct agtagctggg attacaaacg cccaccaccc actcgag 227

<210> 388  
 <211> 163  
 <212> DNA  
 <213> Homo sapiens

<400> 388  
 gaattcgcgg ccgcgctcgac cacttattca gggatattgg agaagatatt ccactagaca 60  
 aagattttctg aaattgaaat attattcaat catcctgcaa tctaggataa gaatgataat 120  
 tgctgttaca tcttataaac gatatccttg ggctacgctc gag 163

<210> 389  
 <211> 223  
 <212> DNA  
 <213> Homo sapiens

<400> 389  
 gaattcgcgg ccgcgctcgac ccaccacctt cctgtccct gtgactgcct cgcaactggg 60  
 tctgttctgt gagatgtcgc caccctgttt gccatctggg aggatctcac tccttcaatt 120  
 taatctgctc tcttcggtta tttttttagt ttctatgtat tttactttta ggacattcct 180  
 tggactttgt tctacctctt taattgatga agaaaacctc gag 223

<210> 390  
 <211> 185  
 <212> DNA  
 <213> Homo sapiens

<400> 390  
 gaattcgcgg ccgcgctcgac ctccatctcc aaaaaagaaa aaaaatgtat tctcttagca 60  
 aatttccagt ttataatata gtattattaa ttatagtcct tatgggtgtac attagatctt 120  
 tagacttact cttcttataat atatgtaact ttacatcctt ggacctacat ctcccctgcc 180  
 tcgag 185

<210> 391  
 <211> 221  
 <212> DNA  
 <213> Homo sapiens

<400> 391  
 gaattcgcgg ccgcgctcgac gagaaagtca taattcatta gatatgtttt aattattgaa 60  
 tttgttagac tctaaccttg aagtactaac taagcttgct ataaatatac tgtttctcat 120  
 ctttgcgtgc taccttggtg ttaatggaga gtcactttgt agaaaaaaat atactgtttc 180  
 tcatctttgc tgtctacctt gttgttaacg gagagctcga g 221

<210> 392  
 <211> 219  
 <212> DNA  
 <213> Homo sapiens

<400> 392

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 tcaagattca gctgaatctg taggtaaatt tgagttgtat tgccatctta ataattttaa 120  
 atcttccaat tcatgagcat ggaatgtttt ttcttttatt taggaattct ttattttttt 180  
 ccaactgtgt tttgtagttt ttgtatgcag gttctcgag 219

<210> 393

<211> 155

<212> DNA

<213> Homo sapiens

<400> 393

gaattcgcgg ccgcgtcgac ggggtaagaa gctgccggct gaactaatac tgggttatta 60  
 tacttgtttc cttcagaact ctgtggcat tggccatct tctgacattg aactctgcta 120  
 tgaagtccaa ggtaacctc atcctcctgc tcgag 155

<210> 394

<211> 157

<212> DNA

<213> Homo sapiens

<400> 394

gaattcgcgg ccgcgtcgac caaaatttga atcctaagag cttgttacat ataaatatta 60  
 acagtgtacc ctttatgata tgagctacag atattgtcct cagttgtgtt ttcttttgac 120  
 tttgctaattg ttttattctt gccatgcaga gctcgag 157

<210> 395

<211> 231

<212> DNA

<213> Homo sapiens

<400> 395

gttaaaacgt cgaatgtgcc atcacattct atcacatatt ttgacgtgg caatttgcac 60  
 ttgggttaa gtaaataaca tttttttaa cccactattt tgagcgttca gtggtctgta 120  
 acagtgtgtt ataccataag aactggatg aagtgggtta ctactagttt aataatagtt 180  
 gaagcctggg cgtgggtggc cagcctgta atcccagcgg ggaggctcga g 231

<210> 396

<211> 183

<212> DNA

<213> Homo sapiens

<400> 396

gaattcgcgg ccgcgtcgac ccacttcatt ttttaagaaag gaagcaacag atagatgttg 60  
 ctctttcacc tgggtgtctg ggctcaagct ttcccgcaca gcctcacttc ctttgccctt 120  
 cctcctgcct ttctcaactg tccaaggag ggggcctcat tgtgtctccc gtgcacgctc 180  
 gag 183

<210> 397

<211> 213

<212> DNA

<213> Homo sapiens

<400> 397

gaattcgcgg ccgcgtcgac gctgccactc ctaaaaatat cagagtgtatt ttttttttcc 60  
 ttaatcacat aactgtaac ttctgtctac tcagggcaaa ctaactttta gatgaaacct 120  
 aaagaatgga tttttcattt ttactacat ttgactgtaa atacagacag cttgataata 180  
 ataacatatg ctgtggaatt cccaatctc gag 213

<210> 398

<211> 153

<212> DNA

<213> Homo sapiens

<400> 398

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gaattcgcg cgcgctcgac cctgtttttc tttcctcta atcaaatgag aagatgttgc 60
ttggtttatt tttttttctt tttcttagca aagaagtact ttgagtatgt cctagaacaa 120
tatttttcaa gatgctctcc ctggctcactc gag 153
```

<210> 399

<211> 288

<212> DNA

<213> Homo sapiens

<400> 399

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gaattcgcg cgcgctcgac tctaaaagca agattgatgt attttgaat tctacagtgc 60
ttacttcagt gttgatgaca gtaataagaa tagtatctat agaataacta gttttaaaagt 120
tttttactaa aaattcattc tcaatttaat aactagagag ttacagtatt ttttttcagc 180
atgtatttta gtttggttta tcaccttaat ctccctaata gtccctgcaa tgtagtactt 240
gttctaacca tactgggatc ccacattata ttagcatatg ggctcgag 288
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<210> 400

<211> 203

<212> DNA

<213> Homo sapiens

<400> 400

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gaattcgcg cgcgctcgac acattgcatt aatggtagta caaccttaag tgagtgaag 60
gaattcgaag ttttagaag taggaaaaaa ttaccacaa cccttaggat attgatcctt 120
ctaaaatatt taatttttta aacacttttc attttggttt ccactctatt tcaatgcata 180
ttctttttta cagaatactc gag 203
```

<210> 401

<211> 193

<212> DNA

<213> Homo sapiens

<400> 401

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gaattcgcg cgcgctcgac cttgctgcat acagatctgt tgaaagtctc cgtgcatgtt 60
aaaccatcca ctctgtaggc aagtgttgt aggtgtcttc actttccaga tgaagtcact 120
gagaagacaa gaggttcaga cacttgccca acctctagta agtgacggag ctgagatcca 180
aacgcgtctc gag 193
```

<210> 402

<211> 284

<212> DNA

<213> Homo sapiens

<400> 402

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gaattcgcg cgcgctcgac gatttattta atcctcctaa tagttattaa taataactat 60
tatcccccat ttacaaaag aggaaactga ggcacagaga agttgagtga cttgcacaag 120
gtcactactaa taaatagcag agctgggatt tgaaccaga ccacggtcac caaactgtaa 180
agggctcaat ggtcaatatt ttggctttg tagtccatgc agtctctgtc acagtgactc 240
aacctgtctg ttggagcaca aaagcagaca taggcgtctc cgag 284
```

<210> 403

<211> 168

<212> DNA

<213> Homo sapiens

<400> 403

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gaattcgcg cgcgctcgac taaaaaagta atttagattt aaagttcttt gatgtatttg 60
```

atcttctctaaa tcttttatggt tatgatttgg aataaaaatgt gcctaatacct gtgttacatt 120  
ctgttctcttaa atctgaatgc cttctcattt aattctgagg gactcgag 168

<210> 404  
<211> 189  
<212> DNA  
<213> Homo sapiens

<400> 404  
gaattcgcgg ccgcgtcgac ataaattatg gtcctaagta tctttccatg acaaaaaaga 60  
accagtgaa tagaaaaattt tattttcatt attatgatat cttattttct atatgtagat 120  
atgtattttc tttttctttc tttttttttg agatggagtt ttgctctgtc gcacaggctg 180  
gatctcgag 189

<210> 405  
<211> 174  
<212> DNA  
<213> Homo sapiens

<400> 405  
gaattcgcgg ccgcgtcgac gaatccatct ggtcctggtc ctggttctac attttgtagc 60  
ttgtgagtat agagggtgtc ataataagggt ctgggaattt ttgtatttc tgtgaggtca 120  
gtggtaagt cctctttgtc atttctgatt ttgtttattt ggcgctccct cgag 174

<210> 406  
<211> 234  
<212> DNA  
<213> Homo sapiens

<400> 406  
gaattcgcgg ccgcgtcgac caaagtgtctg agattatagg tgtgattcac tagctccagc 60  
ctaaaatccc taaattctaa aatccccaaa tcacaattct gagagaccaa aatttcaaaa 120  
atataattgt ggaataaagt tttaaaaata tttaaaatac atttgttaca attttaaag 180  
aagacttttag agacatataa atacatgact gaacacatta taggtccact cgag 234

<210> 407  
<211> 196  
<212> DNA  
<213> Homo sapiens

<400> 407  
gaattcgcgg ccgcgtcgac agtagctgag atagagtgga gagcaagatc attgcaagat 60  
ctcactactt agcactcaag tagaagaaaa aaaaaagac cattgaaaga gtgaagtcaa 120  
gaaaatgaga ggcagggtga ggggtgatta ccaagaagcg tatgaaaac cccaagaatt 180  
aaaacaggag ctcgag 196

<210> 408  
<211> 232  
<212> DNA  
<213> Homo sapiens

<400> 408  
gaattcgcgg ccgcgtcgac agatcacacc accacactcc aacctgggca acgtagaaaag 60  
gccccgtcta tatttttaat taattaatta attaaagtgt ttttttaaag cactcatcat 120  
aaaagaatat agcaaaatac caaaaagga aaaataagcc aataaccaag tcaaaatgag 180  
gtgtggagtt ctgactgtgt gtctttgggg cttcttccca tcaccactcg ag 232

<210> 409  
<211> 232  
<212> DNA

<213> Homo sapiens

<400> 409

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gaattcgcg cgcgctcgac cacacacgca aatacagatt ttctgtccaa agcccaggca 60
gcattttctag atgtggccct ttgggagtaa catgctttcc cagtccttcc acctccatat 120
acttttctct accctcctgg acagccagag cactctagag cagatatgca aaaagtcagc 180
tcaaataagac caagtagtgc cgaactgtcc caaagcacac gcacctctcg ag 232
```

<210> 410

<211> 159

<212> DNA

<213> Homo sapiens

<400> 410

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gaattcgcg cgcgctcgac cctctgctta ctgtgacagt cgatgatgaa tcttgcggtg 60
ccattttctg ctgtgggtaa ctgcgtgcag tgtcttgccct tgctttctct tcttactgtc 120
ccacagcttg gtttcatgtt acaaacagaa aagctcgag 159
```

<210> 411

<211> 230

<212> DNA

<213> Homo sapiens

<400> 411

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gaattcgcg cgcgctcgac cccgccttgg cctcccaaag tagcagtaca tttattaaag 60
aaaactagaa agaagtagtg aggcaaaagc cctctccagt cttacagaca cacacaataa 120
tgattttatt cctttcactc tttttttgtc ttcttgtaag tctttgcctg agcttgaagg 180
tcgggagtag tttacacaat catcattatg ttgcatatgc tggctctcgag 230
```

<210> 412

<211> 181

<212> DNA

<213> Homo sapiens

<400> 412

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gaattcgcg cgcgctcgac gtttgacgta ttggagtttt tggttattct attcctgttt 60
gtggtgaact ctctagttca ctataccttc gtctggcttg aggagtatga taatccaagt 120
gcctgccttt attttcttgt ctgcatgtat tttatatttc tgttttccca tcacactcga 180
g 181
```

<210> 413

<211> 166

<212> DNA

<213> Homo sapiens

<400> 413

```
gaattcgcg cgcgctcgac agacctgcct ctactcagtt tggattattc acagtccctg 60
catatgtctt tagtttttcc taataccttt gttcatgctg ttctttcctt ctctgagtt 120
gattaccgcg ctctttcaac tgtactacat tcatacatct ctcgag 166
```

<210> 414

<211> 116

<212> DNA

<213> Homo sapiens

<400> 414

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gaattcgcg cgcgctcgac caaatcatga agcaattttt aaatttttta ttttctcttt 60
attttatcat tttttccttt cttttttatt ttttaaattt tgagcatacc ctcgag 116
```

<210> 415

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 415

```

gaattcgcg cgcgctcgac ccttcttcat gaattgcatt tttccactct taagcatccc 60
tttattttct tcccagggat cacagaagag aaagatgaag agcaaataatt tttcctttac 120
tttgtgtatt ttctacaaac ttggggcctg ccttgggtggc tgtcaaatgt tccctttttt 180
agagcagaaa gagttgcagg aaaacatgat gtggtgtttc atgcaacata gtggaaatgc 240
agtttttaggt catcaggctg cacttctctc cagtccgcag cccagagct caatactcga 300
g

```

&lt;210&gt; 416

&lt;211&gt; 355

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 416

```

gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt ctgactctg cccagtgtag 60
atatctttca caaataagac gatataaaga tattttcaga taggtgtata acattcgtct 120
aagtcagat cgacaaacac tgctgttaa aataagacag aagctggaaa cggaagataa 180
acctgagaga gaaagcatga ctctggaatc cacctgccat cagagctctc tccagaccag 240
tgctccttcc ctctctcacc ttcttgaatg cctcggcctg gcacctgaac tccccatcgc 300
tgctgccacc ttccccacc cacttcttcc tctttcatgt gtgctactcc tcgag 355

```

&lt;210&gt; 417

&lt;211&gt; 177

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 417

```

gaattcgcg cgcgctcgac tataattata gctaatagaa ataaaaataa ggaataacca 60
gaaagaaata taaaggaatc ataaagtga gcagataggt gctaagtga tcttgcttac 120
aatatttgag ataattctta aagtcattat accagtcttg atatgagggt cctcgag 177

```

&lt;210&gt; 418

&lt;211&gt; 151

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 418

```

gaattcgcg cgcgctcgac taggatattt tgacataagt gtaggacact tatgaatttt 60
gccttattat ttgtcaatct tataaaaata tatgttaaga aacttatcta tatctacatc 120
tttaaaattt atgatgaggg cagggtctcga g

```

&lt;210&gt; 419

&lt;211&gt; 260

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 419

```

gaattcgcg cgcgctcgac atacagggca tgatgaggtc atcacagatc cagggttcttt 60
ctgtcttctg ctctgcattc gtagcctgtg gctttgtcat tccctcatct ggaaatggcg 120
gctgcagccc caggcacaat ggcccgttga ggaagaaggg ggacgatgtg cagtgtcagg 180
ttattttatc aggaagtctc aaagcttctc agaaatcttc tgttgaatt ctacctgggt 240
gtcataggcc aggactcgag

```

&lt;210&gt; 420

&lt;211&gt; 174

&lt;212&gt; DNA

<213> Homo sapiens

<400> 420

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gaattcgcg cgcgctcgac ttcttttagca atttgagaga agttttacta caagtgtat 60
tttagttttc ttttaaaaag tcagttttta agttgtataa attaaaaata tttttaaat 120
tttaaacaga tgctccccct tcaaccact ctagttatta ccactctact cgag 174
```

<210> 421

<211> 190

<212> DNA

<213> Homo sapiens

<400> 421

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gaattcgcg cgcgctcgac accttgccag gcccttagat aatctttcaa aatccctttc 60
acaagccaaa attatctgct ggtgactgga actcacagac agaggcttgc tagccctttt 120
gcattgattg agaggctttt caaaattaat cattgctatg atttcaatat ctgttcccc 180
aaaactcgag 190
```

<210> 422

<211> 173

<212> DNA

<213> Homo sapiens

<400> 422

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gaattcgcg cgcgctcgac tgccatcatc accacgtata cttaggactt acgtgatcga 60
gttctttttg agcagcttat ttgaaggtaa cctgcagagt taaaatgcat ttggcatcct 120
tcctaagtag agaccaaaaa tattttcact tgggttctct gtggtacctc gag 173
```

<210> 423

<211> 214

<212> DNA

<213> Homo sapiens

<400> 423

```
gaattcgcg cgcgcgaca tctaggcaca agtctcacct tctccaggaa gctgtcaaa 60
aaagccacct ggctctggta tcttctctta cagatcacct caacacttaa atcctcaaat 120
tctaacatat acatttctac ttattggcat ataaatgttg gtaaatgtac tacaatcatt 180
tcattgcaagg cagctgttgt ctacagtcct cgag 214
```

<210> 424

<211> 170

<212> DNA

<213> Homo sapiens

<400> 424

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gaattcgcg cgcgctcgac tgacattcca atcatttagt attttaggac ctgtgaataa 60
cttccaacaa aattaatgaa taccatatta gtattataaa atattataaa gtaataatta 120
tatcatctat ataacttcaa agtatgatgt ttatacaaa aatcctcgag 170
```

<210> 425

<211> 187

<212> DNA

<213> Homo sapiens

<400> 425

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gaattcgcg cgcgctcgac ctaccactag agttaccac tggtcccagt caggcatatt 60
tcctcccaat cctgtcctct ctgtgtattt ggtaattgcy taaatcatct ctcccataat 120
taatctcctt taaaatttgg aataatatag ttgttagaat aatataataa tcatgcagaa 180
tctcgag 187
```

<210> 426  
 <211> 148  
 <212> DNA  
 <213> Homo sapiens

<400> 426  
 gaattcgcgg ccgcgtcgac agagtctgtg ggaatttgtt ccagtgcag gtggaaaaac 60  
 tgccctgtctc tgagcatcaa tgccttggtc tgttctaaca ttttggtttt tttctgtctc 120  
 aatttcacgc ttggcccttt ccctcgag 148

<210> 427  
 <211> 204  
 <212> DNA  
 <213> Homo sapiens

<400> 427  
 gaattcgcgg ccgcgtcgac caaagtgtta ggaacatggc agaaagggtga cacctggaga 60  
 ccaaatgcag ggtaaggagt actgcagagg tcacagggaa gtcacagaac agtaatacgc 120  
 tagcaggggc atggggcgtg aagaacagaa gacaggaagc gtttcagaga ctccaaagaa 180  
 gaaatcaggg ccaaccaact cgag 204

<210> 428  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<400> 428  
 gaattcgcgg ccgcgtcgac gtttacgggt atgttctcat ttctcttaag aattgctggg 60  
 tttcatggta ttttttactt cataagaaac tatcaaactc aaccaaagag gctttgccac 120  
 tttgcattctc caccagtaat gtatgaggat tctagtgtgc ccctatcctc acaaattagt 180  
 attgccagtc ttcccaattt tttctccat ctcgag 216

<210> 429  
 <211> 214  
 <212> DNA  
 <213> Homo sapiens

<400> 429  
 gaattcgcgg ccgcgtcgac ggaaggtagt gccaccttct cctatgactg atcctactat 60  
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 atggatcaac atgacattct caggctttgt cacaaccaag gtcccatttc cactgaccct 180  
 ccgttttaag cctatgttac aacaagaact cgag 214

<210> 430  
 <211> 137  
 <212> DNA  
 <213> Homo sapiens

<400> 430  
 gaattcgcgg ccgcgtcgac gtaagttgtc acagggtagt ctcttaaaaa tcaaagctga 60  
 atctgggtgt ctttacaagt acctttgagt gaagcaagca agctatgttt atccttcact 120  
 gtctttccct cctcgag 137

<210> 431  
 <211> 245  
 <212> DNA  
 <213> Homo sapiens

<400> 431  
 gaattcgcgg ccgcgtcgac cagtaatcca gaaagtcatt atatttcaaa ttcagcattt 60

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aagatagctg aaaaagaaca tcactacctc ctttaattctc tcattggaaa cttagtttta 120
atcttctgat gcttataaact ttctgtgctt cagtttttcc tttttataaa tgtttgatca 180
tatttaccat ctccctaatt atggtagaca taattatcat aattaggtct agccccagac 240
tcgag 245

```

&lt;210&gt; 432

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 432

```

gaattcgcgg ccgcgtcgac atataagtga cagggataaa atataaacct gaaaaggatc 60
ctagaattat cgttttagttc aactttttta atttatctat aaggaaacta agctctggaa 120
agatggaaag aaatcttctc agaccataa agccacataa ggattctgta ttttatttgt 180
ttgttttttg tttatttttt agtttggttt ttcatgtaag gattttttaat cttccccacg 240
gactcgag 248

```

&lt;210&gt; 433

&lt;211&gt; 203

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 433

```

gaattcgcgg ccgcgtcgac gatataacca ttccctaggat ataccttaaa tatctctgaa 60
gtcagatatt ctccctgagat agagttaagt tggtttctcc ttcagttaaa gactccttgg 120
tagtttttgt tagtttcaaa agtcattcag ctattgaaac aatgaâââa ttacagcatt 180
tagtttccgt gattgtactc gag 203

```

&lt;210&gt; 434

&lt;211&gt; 218

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 434

```

gaattcgcgg ccgcgtcgac caggagtagc tgtttaaaaa aaaaatgtgc gtaggtgtat 60
tattagctac tagtttcatt ttaacttagt taaggaggca taaaatgtta ttaaaggact 120
tatttttatt tatttattta ttgagacagg gtcttgctct gtcacccagg ctggagtgc 180
gtggtgtgat cataggtcac tgcagcctta aactcgag 218

```

&lt;210&gt; 435

&lt;211&gt; 239

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 435

```

gaattcgcgg ccgcgtcgac gcttctttat ccaacttact actgtgtgtc atttaagtgg 60
gggaatttag acccttgaca ttgaaageta atatctaaat ctgaggtttt catcctatca 120
tgaaattgtt agctgggttac tttgtagttt ctactttgtg gttgctactg tgtgcttgcc 180
ttataggacc tatgggctat gtacttaagt gtgtttttgt ggtagcaggt cgcctcgag 239

```

&lt;210&gt; 436

&lt;211&gt; 217

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 436

```

gaattcgcgg ccgcgtcgac gctgtatgca tttttttctt agaggtaatc tgttatttgg 60
gaatcaggaa aaaagtttta aaattcattt tttâââââa agttcaggtt ataacattta 120
agaagttaa tcttggtttt tcagacttgc agâââââa ttagâââââa tgactctaaa 180
atctatcttt catatgttgc tggtaggtag actcgag 217

```

<210> 437  
 <211> 160  
 <212> DNA  
 <213> Homo sapiens

<400> 437  
 gaattcgcgg ccgcgtcgac cttcattgat ctttttctct tcttgcattg taatgagaac 60  
 tgcccgtttc acctccttta cctatcattt tcttccttac tgcattttca cagcatgcta 120  
 tttctctgag atgttccagc aagcaggcca agcgtctgag 160

<210> 438  
 <211> 180  
 <212> DNA  
 <213> Homo sapiens

<400> 438  
 gaattcgcgg ccgcgtcgac ccaacctttg ctttggcctt taacaactca gtgttttggg 60  
 ctaatcttca agaggaattt gaggttcact tgaataagtt agactagttt gaggtgggtg 120  
 tagctagagg attgaagtcg taccaaaaaa aaaatgtatg tatatgtata tgtcctcgag 180

<210> 439  
 <211> 211  
 <212> DNA  
 <213> Homo sapiens

<400> 439  
 gaattcgcgg ccgcgtcgac tcaagctgta ctgtgagcag acgcattggg attatcattc 60  
 aaagcagtct cctctcttatt tgtaagttaa cttttttagc ggaaactact aaattatttt 120  
 ggggtggttca gccaaacctc aaaacagtta atctccctgg tttaaaatca caccagtggc 180  
 tttgatgttg tttctgcccc gcacctcga g 211

<210> 440  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 440  
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 ttctctgcat ttcttgggtg agccacgatg tatacaagat acaaaatagt acagaagcaa 120  
 aatcaaaacct gctatttcag cactcctggt tttaacttgg tgtctttagt gcttggattg 180  
 gtgggatgtt tcggaatggg cattgtcgcc aattttcagg agtttagctgt gccagtgggt 240  
 catgacgggg gcgctcttct cgag 264

<210> 441  
 <211> 174  
 <212> DNA  
 <213> Homo sapiens

<400> 441  
 gaattcgcgg ccgcgtcgac agacctgcct cgagactacc aaagtgtggt aattacaggc 60  
 atgagctacc gcgcccagct gacttgtaca gcttctatgg tgtgctttac atttttctctg 120  
 cttttgagca tttctgagag gcctcgtggt ttcttttctt taacaaacct cgag 174

<210> 442  
 <211> 166  
 <212> DNA  
 <213> Homo sapiens

<400> 442  
 gaattcgcgg ccgcgtcgac tgaggcccca ggttctggga aggtgtacag gcagttaagt 60

ttcgggggatg aagtggactg gcatatctcc atatattcag ttattttat gtaattttga 120  
 aaactttgtt caggaaacctt tttgtattga aagaacaaaa ctcgag 166

<210> 443  
 <211> 153  
 <212> DNA  
 <213> Homo sapiens

<400> 443  
 gaattcgcgg ccgcgtcgac tctgctttta ctgcatctca caatttttga tttttttcag 60  
 ctcactcagt ttagtgatt tttatttttc ttgagactct ctatgaaata cacatcattc 120  
 agatatatgt tgtttagtgt ccaagtactc gag 153

<210> 444  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<400> 444  
 gaattcgcgg ccgcgtcgac ccttttcttt ctctttttat gctattattg tgatatatgc 60  
 ttaatccctt tatattataa agcagggttac acagtgttaa atcactcctt tacacaatct 120  
 tttttaaaaa taatttaaga gaagaaatga gaaacatact aataggtctt acatatacct 180  
 acatatttat tgtttctagc actctctctt tcttctatgg attcaggcgt ctcgag 236

<210> 445  
 <211> 125  
 <212> DNA  
 <213> Homo sapiens

<400> 445  
 gaattcgcgg ccgcgtcgac taatcttggt aaattagcat tctagcaaga agacaggcaa 60  
 taaaccataa ccatactaa gtaagttaat tatactatat gttagaaagt tctgagacgc 120  
 ttcgag 125

<210> 446  
 <211> 346  
 <212> DNA  
 <213> Homo sapiens

<400> 446  
 gaattcgcgg ccgcgtcgac atttttttta acctgccttt ttcactcaagt tctgttttct 60  
 actctttatt tcaactgtag tgagtgttag gtaaggctgt tgattggggg tcaaagctga 120  
 gaacttcagg cctcagttgg ttctagttcc agcattgctt ttcacttaac ttctctgagt 180  
 ttcatttcct tccatgataa tgagagaatt gggccctttg aactaaata aactgggtg 240  
 ggtggatctg aagacatttt atctgcttat tcttttctact cttatgtctc tgcacaccgg 300  
 attgacagat tcctcatggt ttcactctgg tccacaacca ctcgag 346

<210> 447  
 <211> 119  
 <212> DNA  
 <213> Homo sapiens

<400> 447  
 gaattcgcgg ccgcgtcgac gtggcgacaa atttaagaac agagcttttg attaagaggt 60  
 gaagtattac ctacacaaag atgagagtca aagctgaaag aagggatacg catctcgag 119

<210> 448  
 <211> 140  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 448

gaattcgcgg ccgcgtcgac ttttattttc ctatcagagg acttctaggt agttctgaat 60  
 ttaaaattag attaaatttc cttagatcac ctctaaaaat taaaagaatg gtattagttc 120  
 caagtagttt gtcctctgag 140

&lt;210&gt; 449

&lt;211&gt; 190

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 449

gaattcgcgg ccgcgtcgac ctattttagt ttttactctg aattaattgc aaggaaagct 60  
 tcaaacttca ttttgcgtga ttctttttaa aatgtatttt ttgtttaaaa gcataagtgt 120  
 tttctactct ttatttctga tggaaaaata tgagaatcca atagtcaacc aaggtaacgg 180  
 aacactcgag 190

&lt;210&gt; 450

&lt;211&gt; 260

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 450

gaattcgcgg ccgcgtcgac ctagtccagt gttttaaccc ctaagttagc ttggggagct 60  
 aggacacaag ttcacaagtg tggacaggaa cattaaactt tctgccagcc gaaatctgtc 120  
 aggagcttgg ttcagatttt ttttaactct aaaaagcgct ttggttcaaa gcagattcgt 180  
 taagagtgtg gggagttttt gttttgtttt attttaagct gcattaaact ccaatgtata 240  
 tgaaaggggc aatcctcgag 260

&lt;210&gt; 451

&lt;211&gt; 245

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 451

gaattcgcgg ccgcgtcgac attctgtttg tgtacatttc tctctagaag ttagtcagaa 60  
 cagtgtcttt aatttatgag gctttataat ctactttatt gatagactcc agagataggg 120  
 aaacatttca tactaacaca agagcaaagg tctttatgaa atatagacat acggtctcac 180  
 aagcatcaat atttttggtg gtgttttttag ttatactgtg tataataaac agagtgaatc 240  
 tcgag 245

&lt;210&gt; 452

&lt;211&gt; 155

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 452

gaattcgcgg ccgcgtcggt ctctccccag ctteccctaca ttcttccatg ctagtccctt 60  
 tcattcctctg ggtgtctgca tatgtggccc ctctctatgg cagcttttcc tggccagcct 120  
 atggaagtag gtccatcagg caccctcccc tcgag 155

&lt;210&gt; 453

&lt;211&gt; 217

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 453

gaattcgcgg ccgcgtcgac ggagatttgg atttaagaca ggaaattgga atgtgtcttt 60  
 ttgggtgttc ctcatctcac tgcttatgtt gactatgggc aggaatcttt acctcttaac 120  
 ttcatttttt acgtttattg aaatgggtact ttctatttat ctacttatca gtactaggca 180  
 gattctgtat aactttcagt ttcaggatac tctcgag 217

<210> 454  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 454  
 gaattcgcgg ccgcgtcgac tgtacttcac tcttctctct cacttctgac gaagaaacaa 60  
 gttggatgtc ttttcccaat ggtgctgagt catcccagtc tctgtctttg gtactgctgg 120  
 ccctctgggtg ccatagcaat ctgtttctgt tctcttttgc ttttgttggc acccagaaat 180  
 ctaacctgtg ctgtttccat tagtgctcca ggcaagacag aaacccatcc cttgggtggc 240  
 acgctcgag 249

<210> 455  
 <211> 226  
 <212> DNA  
 <213> Homo sapiens

<400> 455  
 gaattcgcgg ccgcgtcgac cggcctctgg ggcggagccg caggtcctgg tacaatactt 60  
 ggtgttacga aaggatctat cacaagctcc gttctcctgg ccggcgggcg cactggtagc 120  
 gcaggcttgt cacgcggcca ccgcggcctt gcacactcac cgcgaccacc cgcacacagc 180  
 cgcttacctc caagagctgg ggcgcatgcg caaagtggtc ctcgag 226

<210> 456  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<400> 456  
 gaattcgcgg ccgcgtcgac ctaaacctcg attgaattct agacctgcct cgagccctgc 60  
 ccagatctgt tctgcaacat tcaccgttct ctgcatccag ctctgettatt ctgctgttac 120  
 cttggacacc agagcagcta taggtatctg ccagagctat gaaatcatte agccggatcc 180  
 tcttctctgt ctctctctc gccggcctga ggtccaaggc cgctccctca gccctctgc 240  
 ctttgggctg tggctttccg gacatggccc acccctctga gacttcccct ctgaaggggtg 300  
 cttctgaaaa ttccaaacga gatcgccctta acccagaatt tcctgggact ccttaccctg 360  
 agccttccaa gctacctcat acggtttccc tggaaacctt cccacttgac ttcactgagc 420  
 acctcgag 428

<210> 457  
 <211> 451  
 <212> DNA  
 <213> Homo sapiens

<400> 457  
 gaattcgcgg ccgcgtcgac cttgagtttt atttttggct cagatatcct ggactgggct 60  
 gcaagccaga aacaccaatg gctgcggaca attattggat taaaaaaaaa aaagagtccc 120  
 aagtaaaggc tgctctctta ggacagcagg aacagggcag cctagcaaga cagaaaattt 180  
 ttagacaata accaacctag gccatgagaa aaacgggcct cattcccata cggtcagcaa 240  
 atactgagtg gggaacctag actcccaact tcacctgggt ataacgaggc actcttcttg 300  
 actcctacta caagggcggg atcagagaag gtgagcgggg aatcctgccc tcctcctccc 360  
 ctccagctgt aatgtcatac agactacaca gggagcctgg actttcactc cacctagcag 420  
 taacaaggca cctctcccc atactcga g 451

<210> 458  
 <211> 394  
 <212> DNA  
 <213> Homo sapiens

<400> 458  
 gaattcgcgg ccgcgtcgac ccaaagccta aaattagaac tcggaagtcc tccagaatga 60

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caccctttcc agctacctct gctgcccctg agccccaccc ttccacctcc acagcccagc 120
cagtcactcc caagcccaca tctcaggcca ctaggagcag gacaaatagg tcctctgtca 180
agacccttga accagttgtc cccacagccc ctgagctcca gcctttccacc tccacagacc 240
aggctgtcac ctctgagccc acatctcagg ttactagggg aagaaaaagt agatcctctg 300
tcaagacccc tgaaacagtt gtgcccacag cccttgagct ccagccttcc acctccaccg 360
accgacctgt cacctctgaa tccaccaact cgag                                     394

```

&lt;210&gt; 459

&lt;211&gt; 202

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 459

```

gaattcgcgg ccgcgtcgac caggtcgaag cgatccaccc acctttgcct cccaaagtgc 60
tgggattatg tgtgtgagcc acagctcctg gcctcttttt ttgtttttcc tatcccaagt 120
tgtattacta gttttgggga gtttgcagac aattgaatat tctataggct gtgttgacgc 180
tttagatgga tcgtccctcg ag                                             202

```

&lt;210&gt; 460

&lt;211&gt; 126

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 460

```

gaattcgcgg ccgcgtcgac ctgggtggat ggtgggtgcc caagtcaaaa agaattcctg 60
cttctctctt ttttctcctc cccacactca atgcaccctc aggtcctgtg cctccatctc 120
ctcgag                                             126

```

&lt;210&gt; 461

&lt;211&gt; 187

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 461

```

gaattcgcgg ccgcgtcgac tcttgactct tcagagttcg tacctcaaaa gaacaatgag 60
aacatttgct ttgctttctg ctgaatccct aatctcaaca atctatacct ggactgtcca 120
gttctctctc tgtgctatct tctcttctat ccaagtagaa tgtacgccag gagctccttc 180
cctcgag                                             187

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&lt;210&gt; 462

&lt;211&gt; 193

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 462

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gaattcgcgg ccgcgtcgac ccttattttc catgacagat cttaacgaca atatatgcaa 60
aagatatata aagatgataa ctaatatagt tatactgagc ctgatcattt gcatttcggt 120
agctttctgg attatatcaa tgactgcaag cacctattat ggtaacttac gacctatttc 180
tccaaggctc gag                                             193

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&lt;210&gt; 463

&lt;211&gt; 224

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 463

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gaattcgcgg ccgcgtcgac gatatttaat actttctgat caaacagggt caaagtaaaa 60
cgtaaaatct cacattttct ttaaagaact cttaaagtgt aacagttacg ccatacttca 120
taagtggtaa agaaaggat aaaatttggg aacattttgt tgggcatagt agtgattggg 180
tgaaaaggat aaatttatatc aaatagagaa tgtgcttgct cgag                                     224

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<210> 464  
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 <212> DNA  
 <213> Homo sapiens

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 aaagaatatg aggctcattt tacctcttct tctccactc ctagtcttcc tttttatatt 120  
 tgacattggc agtagttcca gtacgtcga g 151

<210> 465  
 <211> 292  
 <212> DNA  
 <213> Homo sapiens

<400> 465  
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 agttattcag gaaaatagcc taattacatg actctcttct ttactagtaa ttcacatttg 120  
 tctggcactt tacaattcat ttgcaataa tgacacaaaa gcacagagag attaaggagc 180  
 ttctctgaag tccctcaaat tgattatcta tttttttctg ttctgcctac acaacttcta 240  
 ccccggtgcc accctcagct ccaccatttt gcaccatcaa tctgtcctcg ag 292

<210> 466  
 <211> 178  
 <212> DNA  
 <213> Homo sapiens

<400> 466  
 gaattcgcgg ccgcgtcgac agaagatttg taaaagaaat aggtcttttt ttttttttgg 60  
 ttaattcaaa cgaggggaaa attagatagc attttcccct aaagaaatgt taatgttcat 120  
 tttgtggctt tgttttcaag ttccaggagc catgtacatc tcagaagcgt tactcgag 178

<210> 467  
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 <212> DNA  
 <213> Homo sapiens

<400> 467  
 gaattcgcgg ccgcgtcgac ttgggttttt gtttcttcat tttttatget tttctttctt 60  
 cttctttttc ttgtgtttct ctttaccttc agaggagcag ctccagtcc tctgaaggta 120  
 aagagaaaaca caagaagtct cgag 144

<210> 468  
 <211> 171  
 <212> DNA  
 <213> Homo sapiens

<400> 468  
 gaattcgcgg ccgcgtcgac ctttttttaa aaaaagtatt tcattgaagc aagcaaatg 60  
 aaagcatttt tactgatttt taaaattggg gctttagata tatttgacta cactgtattg 120  
 aagcaaatag aggaggcaca actccagcac cctaattggaa cactctcga g 171

<210> 469  
 <211> 254  
 <212> DNA  
 <213> Homo sapiens

<400> 469  
 gaattcgcgg ccgcgtcgac cagatgatga atttgagaac cctgtaccc ttcgtcatatc 60  
 catggaaaag gttgttcgct cagcagctac aagtggagct ggtagcacta cctctgggtg 120

tgtgtctggc agcctcggc ctcgggagat caactacatc cttcgtgtcc ttgggccagc 180  
 cgcattgccg aatccagaca tattcacaga agtggccaac tgctgtatcc gcatcgccct 240  
 tcctgccccct cgag 254

<210> 470

<211> 181

<212> DNA

<213> Homo sapiens

<400> 470

gaattcgcgg ccgcgtcgac acatgtacct gtaccagcat gtccctggcca ctctacagtg 60  
 ccgagacctta ctaagagcca ctgtgtttcc tgagactgta ccattcccttg cactagagac 120  
 ttcaggaact acttctgagc tagaaggcgg tgccctgag ccattacccc cagtcctcga 180  
 g 181

<210> 471

<211> 242

<212> DNA

<213> Homo sapiens

<400> 471

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 ctacggagaaa catctggaga aacatgtcaa ggggtgtgtg gaaatcgttg agcctactcg 120  
 attttgtcgt gctgttgcgc ggttttctact tggcactgtc ctttaaactc cttctgtgcc 180  
 gtgactctgc agtgtctggc agcgtagtag actctactcc ctctatggac gtgatactcg 240  
 ag 242

<210> 472

<211> 219

<212> DNA

<213> Homo sapiens

<400> 472

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 ttggtgcaca atagtgttg gttgatccag gctttcagcc tggcctgcac agtcaaaggc 180  
 tatcaaatgc ctgctgctaa ttcaccctgt acactcgag 219

<210> 473

<211> 220

<212> DNA

<213> Homo sapiens

<400> 473

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 ttacttttct gtggacacca tgtatgtggg cagaaagctg ggctgctgt tcttccccta 120  
 cctacaccag gactgggaag tgcagtacca acaggacacc ccggtggccc ccgcttttga 180  
 cgtcaatgcc ccggacctct acattccagc aatactcgag 220

<210> 474

<211> 219

<212> DNA

<213> Homo sapiens

<400> 474

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 cgagagtctc cattgttgta caggatcttc agttattcga ggggaatgag gcaggtaag 120  
 ccgatgctag ccactagttt gatttttttt ctgttttata gtttgcgctg catggtactt 180  
 gtgaagctta aatattttga gtgttctact ggactcgag 219

<210> 475  
 <211> 144  
 <212> DNA  
 <213> Homo sapiens

<400> 475  
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 agcttcaaca tatgaatttt cagggttatc attcagtcca aagtacttaa tatgattctt 120  
 ttccgtttcc acatagtact cgag 144

<210> 476  
 <211> 176  
 <212> DNA  
 <213> Homo sapiens

<400> 476  
 gaattcgcgg ccgcgtcgac aaaggtagt gcctttaaaa ctaacctgtg ttagagttac 60  
 atgaatctgg ctctaaagta tctattttgc atccatttat atatagatct taaacagaaa 120  
 tactctaggt tgccacacca cagttttaag aagttatgct gctgctgtta ctcgag 176

<210> 477  
 <211> 155  
 <212> DNA  
 <213> Homo sapiens

<400> 477  
 gaattcgcgg ccgcgtcgac agaagctcaa gaagcacact ggagggtacc ttgaggcggt 60  
 tgtgtaatct gcatactagt ggagtagcca tggtagccgt agccacatgg gtgttctgtt 120  
 gctggtttgc aggttcaaac cttgtactac tcgag 155

<210> 478  
 <211> 122  
 <212> DNA  
 <213> Homo sapiens

<400> 478  
 gaattcgcgg ccgcgtcgac atggagttgg tcttagccgc tgcaggagcc cttcttttct 60  
 gtggattcat catctatgac acacactcac tgatgcataa actgtcacct gaagctctcg 120  
 ag 122

<210> 479  
 <211> 158  
 <212> DNA  
 <213> Homo sapiens

<400> 479  
 gaattcgcgg ccgcgtcgac ccttgaacgc acctcaggat ggcccgtact ttggaaccac 60  
 tagcaaagaa gatctttaaa ggagttttgg tagccgaact tgtaggcggt tttggagcat 120  
 attttttgtt tagcaagatg cacacaagcc acctcgag 158

<210> 480  
 <211> 109  
 <212> DNA  
 <213> Homo sapiens

<400> 480  
 gaattcgcgg ccgcgtcgac cggatcaagg tctttcattt cttgttcgct tactttcgtg 60  
 aaatcctcac atcgttttaa tggtagtagt caagacaagt ttactcgag 109

<210> 481

<211> 182  
 <212> DNA  
 <213> Homo sapiens

<400> 481  
 gaattcgcgg ccgcgtcgac ctacatgcta ttatagctgg atttttggca ggtatatcaa 60  
 tgatgtttta taaaagcaca acaatttcca tgtatttagc gtccaaattg gtagagacaa 120  
 tgtatttcaa aggcattgaa gcaggggaagg ttccctattt tcctcatgca gataacctcg 180  
 ag 182

<210> 482  
 <211> 144  
 <212> DNA  
 <213> Homo sapiens

<400> 482  
 gaattcgcgg ccgcgtcgac ataaatcttt ctttttaata taaattggag gaaactaatg 60  
 aataaatcaa aggttcgagc tgtacatgca gttactgtga ttttagtgtg tgtaataaaa 120  
 tgctgtgaag cacacactct cgag 144

<210> 483  
 <211> 194  
 <212> DNA  
 <213> Homo sapiens

<400> 483  
 gaattcgcgg ccgcgtcgac ccaattttta gtccacactt cggactcacc agaaatttat 60  
 tttctgaaat gtacagccta atttattcta tgatttttaaat gtcttttctt ttaattctct 120  
 cctctcagta tacttactct ttgacctcaa gaagcctcca attccttaac caaccttttc 180  
 cccctccct cgag 194

<210> 484  
 <211> 194  
 <212> DNA  
 <213> Homo sapiens

<400> 484  
 gaattcgcgg ccgcgtcgac gtgggatata tcttttctgt tctatatttg gtagacaatc 60  
 ttcttaaccg catgaagtc ccggcggaagt tgctctcccc attgtgggtca ggactcttca 120  
 tggcctggac cctctggatg aatttcttca ggatctccac ttgtctcacc ctcccgcgtc 180  
 ccccaaaact cgag 194

<210> 485  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

<400> 485  
 gaattcgcgg ccgcgtcgac gaggaactat ttaagttttt cagagattga aattatttgt 60  
 tttaaaaaga tcacattttt gtataaaaaa atcttgagag actaggaagc tatttgcaat 120  
 agttcatgta tgaaatttga atgcaaaaaa ctaatttctt tagcattcac ttttttattt 180  
 atttttcttt attttttaat ttctgtgaag ttactgggtt atctcgag 228

<210> 486  
 <211> 121  
 <212> DNA  
 <213> Homo sapiens

<400> 486  
 gaattcgcgg ccgcgtcgac tttcttaatt cagttgagtt tttttttttt ccaagtgttc 60

atcttgatcc actaaattta ttgcatgacc tatgaaatgg atcataaccc aaattctcga 120  
g 121

<210> 487

<211> 217

<212> DNA

<213> Homo sapiens

<400> 487

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ctcaaagaga ttcaggacct gcagagtcgc cagaagcatg aaattgaatc tttgtatacc 120  
aaactgggca aggtgcccc tgctgttatt attccccag ctgctccctt ttcagggaga 180  
agacgacgac ccactaaaag caaaggcagc actcgag 217

<210> 488

<211> 204

<212> DNA

<213> Homo sapiens

<400> 488

gaattcgcg cgcgctcgac ctttgacata tttattactg caagtagaat ctcactaatg 60  
acctattcct gtatggcctt atccaaatcg aaatcacaag aacagaagaa taatgaaaaa 120  
acagacaaga gttcattaaa tctcccagaa gttgattcag atgttgctaa gcccaaccag 180  
gcatgtattt ccatcggact cgag 204

<210> 489

<211> 288

<212> DNA

<213> Homo sapiens

<400> 489

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ttactgaaaa tgtgggatta caatgaaact cttaaagtgt gccacataag tcaagggaagc 120  
cacctaagtc atgggatggg catgagtgag acactctgga ataactctga tgetactctg 180  
ggactgccct tgcagggtgg gacatcagct tctaaggg gctcaccaga gactccttca 240  
agggagcatt tcttggttcc catattgtgt ttatgtcatt tactcgag 288

<210> 490

<211> 266

<212> DNA

<213> Homo sapiens

<400> 490

gaattcgcg cgcgctcgac ggggagcacc cagtctttaa gagccaagtg ggggcccctt 60  
ttccgaagcc acttccaggc caaggcagtc gccagggctt cttgtcccca ctttctgaac 120  
cttcttcaaa cagtagtaca agctcccttc agccagcctg cctgcccagc gagggcccca 180  
ggttcaaggt gttggcgggg gcggagggca ggggaacggg atccttctcc cgctgcccac 240  
caacaccaac actcacacac ctcgag 266

<210> 491

<211> 166

<212> DNA

<213> Homo sapiens

<400> 491

gaattcgcg cgcgctcgac atccctctct ggatctctgt cttccccaca gcatggctca 60  
gtcattttatc attaacacat tagctctcag aagtttgcgt ctatttgtcc accttttttt 120  
ctttgttctc agtgaggaag gctgttctga attgcatgat ctcgag 166

<210> 492

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 492

```

gaattcgcgg cgcgctcgac ctcattagga aacatagaac atagattgta aacattttgc 60
tatatttggt tcatgattat tttttgcttg tgtttgaaaa tatattaaag aaaattatat 120
tttaccctta aattcttttag tacagatttc taaaaaataa gaacattttc ctgtatagtt 180
acaaaatcac cttttcaaac aaaataaaaa atgtttttta tatcatttat taccagtc 240
ctcgag                                           246

```

&lt;210&gt; 493

&lt;211&gt; 243

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 493

```

gaattcgcgg cgcgctcgac acaataatg ctactagga gtgactaaat atagcaaaca 60
cttcattcaga tattagaatt aggtcacact attgagggtta taatctgaag gttgtgttac 120
atagaaacca ctttagatta ttatcaactt ggactaggct ttattttata atagcatagt 180
aagtaatatc tattgtgtca tttcttcaac cattttattc taagatccat gaggctactc 240
gag                                           243

```

&lt;210&gt; 494

&lt;211&gt; 207

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 494

```

gaattcgcgg cgcgctcgac tacacattag tgcattgcgt atatcaactg gccctcaatg 60
aagcatttaa gtgcttgaa ttttactaaa ctgacttttt tgcaactttg ggagattttt 120
gaggggagtg ttgaaaattg ccaaacactc acctcttact caaaacttca aataaaatc 180
acattttcaa gagagagcac cctcgag                                           207

```

&lt;210&gt; 495

&lt;211&gt; 203

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 495

```

gaattcgcgg cgcgctcgac agctattata taaatatata ttctgggttat agttctaata 60
tgagagatgtt gtgtgcaatg ctggcctgtg gtggctctgt taatgcttta acttgatgg 120
aggaggccag gctcagagct gagatgtggc ctgaaccttc cctgtatcga tcctttaatt 180
tagaactgtc aagatgtctc gag                                           203

```

&lt;210&gt; 496

&lt;211&gt; 172

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 496

```

gaattcgcgg cgcgctcgac taattttttc taagtaagat acaaaaaatt ttcattctaaa 60
gtaatatctt actttatatt gtaaagaagg taggtatatt ggtggctgag gtctcttgaa 120
attgtctaaag ggaaattttt ctatggtaat gctcttacgg ataattctcg ag 172

```

&lt;210&gt; 497

&lt;211&gt; 180

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 497
gaattcgcg cgcgctcgac gaggggaggt acagaaagag gagaggagag aaagagagag 60
agagaggaaa aaaagacagg aaagaaaaga aagaaaagga aagaggaaag gaaagggaag 120
ggaaaaggaa aggaagaaag aatgcaaaga ttgagaaaaa tgtgggcact gctgctcgag 180
<210> 498
<211> 182
<212> DNA
<213> Homo sapiens

<400> 498
gaattcgcg cgcgctcgac aatccttgag ccagggtgc catataacct gacaggaaca 60
tgctactgaa gtttatttta ccattgactg ctgccctcaa tctagaacgc tacacaagaa 120
atatttgttt tactcagcag gtgtgcctta acctccctat tcagaaagct ccacatctcg 180
ag 182

<210> 499
<211> 174
<212> DNA
<213> Homo sapiens

<400> 499
gaattcgcg cgcgctcgac ggagcaataa cttacagttc agatgaagct cctccctctc 60
attcttcttt cctccctccc tttcctggta gcctcctttc ctccccttct gccttccct 120
tccttctttc cttattcttt tttattttgt ttaaatagta ccacagatct cgag 174

<210> 500
<211> 171
<212> DNA
<213> Homo sapiens

<400> 500
gaattcgcg cgcgctcgac attttgaagc gtcttttttc tttctttttt ctttttttgt 60
tttgtttttt gttattgata ttaaacagtg taatctttgc aagcgtatat tgaagattat 120
tctggagcat ttattgcctt accagaaatg ttagtaggaa atgttctcga g 171

<210> 501
<211> 169
<212> DNA
<213> Homo sapiens

<400> 501
gaattcgcg cgcgctcgac atccgagaaa gggacgctta taagaatatt tgatacttca 60
tcagggcatt taatccagga actgcaaga ggatctcaag cagccaatat ttactgcac 120
aacttcaatc aggatgcggt tgcaattctt gttcccgacc tgcctcgag 169

<210> 502
<211> 332
<212> DNA
<213> Homo sapiens

<400> 502
gaattcgcg cgcgctcgac atcagaagag tatccatcac ccgcagcaac cgctcagga 60
acaccatcaa aaaagaaaaa aagggaatat ctggatttcc tgggcgagga ggagcgagtc 120
tgctcgggag ctgttcacag aggcgatttt taaatactgc tttctacgcc ctatacaact 180
tggcttcaca tacttttaca ctaactttat atgattttta aaaactggtc tgatcggact 240
tctcgtcctg ggacactgtt tactggagtc tggccggctc tccgtgctcc tcttggtacc 300
tcattttggg gagaacctta aaccactcg ag 332

<210> 503
<211> 234

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 503

```

gaattcgcg cgcgctcgac attcaatttg cattgtaatt cagccactgc caggatgaga 60
tcctacttct ggtttttcagc catctcagct ctgcactctat gggacataag ggcagacata 120
gaaacttttg attcattcat gtggtgcttg agctgggaat ttgaatccct gaattcattc 180
ttcttttttc ccccactttg tctagtacaa ttaggagcaa caaccactct cgag 234

```

&lt;210&gt; 504

&lt;211&gt; 147

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 504

```

gaattcgcg cgcgctcgac aggacttatg atccaattca ccaaagatt aaatgaaacc 60
accctgtggt ttaaaatata tataatgttc aacctaagt atagcaaca tttattctat 120
tctaattatt tgacagggaa actcgag 147

```

&lt;210&gt; 505

&lt;211&gt; 311

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 505

```

gaattcgcg cgcgctcgac gcctcgaaat ggatcgggctt tttttttttc ctccagggag 60
aaggggagaa atgtacttgg aaattaatgt atgtttacat ctctttgcaa attcctgtac 120
atagagatat attttttaag tgtgaatgta acaacatact gtgaattcca tcttggttac 180
aaatgagact ccttcagtc gttatccaaa taaaagcagt tctgaaacta tccctttctt 240
tgttatgggt ggaagggtgg gctccaggcc ttcgcagctc gtggcttata aaatgtgcag 300
aggcctcga g 311

```

&lt;210&gt; 506

&lt;211&gt; 207

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 506

```

gaattcgcg cgcgctcgac gtcacaaatg actttttttt tttcaattaa ggaaaaagct 60
ccatctctac ctttaacatc acccagacc cgcgccctgc cgtgccccca cgctgctgct 120
aacgacagta tgatgcttac tctgctactc ggaaactatt tttatgtaat taatgtatgc 180
tttcttgttt ataaatgcc cctcgag 207

```

&lt;210&gt; 507

&lt;211&gt; 374

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 507

```

gaattcgcg cgcgctcgac gtactctaaa gttagaatct cctgatcttt cagagatgc 60
tggactggag attggcaagt gcacatttca tcttggtgtg gacactgaca ctgtggagct 120
caggaaaagt cctctcagta gatgtaacaa caacagaggc ctttgattct ggagtcatag 180
atgtgcagtc aacaccaca gtcaggaag agaaatcagc cactgacctg acagcaaac 240
tcttgcttct tgatgaattg gtgtccctag aaaatgatgt gattgagaca aagaagaaaa 300
ggagttttct tggttttggg tctcccttg acagactctc agctggctct gtagatcaca 360
aagggtccgt cgag 374

```

&lt;210&gt; 508

&lt;211&gt; 195

&lt;212&gt; DNA

<213> Homo sapiens

<400> 508

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gaattcgcg cgcgctcgac cttggatata caactttcca tctaaaacct actgtctttt 60
ctgctctttc attgcattac cacttccacc cctgcaaact gattcatcat gatctccagt 120
cccttgatca ctactttctc tctagttttg ggctccctca acctcacttc ctacctgatg 180
gggcctaaac tcgag 195
```

<210> 509

<211> 181

<212> DNA

<213> Homo sapiens

<400> 509

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gaattcgcg cgcgctcgac caaagtcaag cctccgaagt acctgttgga tagctgtgcc 60
cctctgctcc gatacctgtc ccactcagaa ttttaaggatc tgatactgcc caccatacag 120
aagtccttac tgaggagtcc agagaatggt attgaaacta tttctagtct gcgggctcga 180
g 181
```

<210> 510

<211> 160

<212> DNA

<213> Homo sapiens

<400> 510

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gaattcgcg cgcgctcgac taagattaag gattcttagt gagatcatct tgccaatttg 60
ttgtacatct ctcattcatt gttgggggaa aaaaaagcac aactatacct ctttaattgt 120
atcttcttcc attatccctc tgactcgggt tctccctata 160
```

<210> 511

<211> 214

<212> DNA

<213> Homo sapiens

<400> 511

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gaattcgcg cgcgctcgac cgagttatct ttattagcct tttttgaatt gaatatctct 60
ggtattttct aaactagaat tgcacttaat tctaataat aaatttattt attgaattgg 120
taaaaagaga ttggccctcg ttctagcttt gtgactgttg tgctctcata aaaagtctac 180
tatatttatg attgttaggc gctatctgct cgag 214
```

<210> 512

<211> 209

<212> DNA

<213> Homo sapiens

<400> 512

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gaattcgcg cgcgctcgac ggggggttcta gaacatgtgt gaataagtcc ttgttttatt 60
ctcagcctct atgaggggaa tgaatgcca gagaccagag cccattctg cagctcctcc 120
ctgttttagc tgtgaaaac tggcctccaa actctgcagt gacaacacaa gatggccgtg 180
aagcaagcct ggcaccagag ggtctcgag 209
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<210> 513

<211> 143

<212> DNA

<213> Homo sapiens

<400> 513

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gaattcgcg cgcgctcgac ctcgagtttc aaaacataat agtatacaaa atataaaata 60
tcttaaatat ttataaaaa cacaagaaaa aaatagaacg tatgaaaata tttttatctg 120
agttctcccc cattattctc gag 143
```

<210> 514  
 <211> 130  
 <212> DNA  
 <213> Homo sapiens

<400> 514  
 gaattcgcgg ccgcgtcgac gtcattcttt gtcagtaaag ttttgtaact tcctcacaaa 60  
 gttctcgtgc ttcttataaa taatgtattt tacattctac acttctattg ctattatata 120  
 ttgcctcgag 130

<210> 515  
 <211> 223  
 <212> DNA  
 <213> Homo sapiens

<400> 515  
 gaattcgcgg ccgcgtcgac gctctgaata gttaaaaatt aaatatattat tttcttcccc 60  
 aagcttttagg taaggagaag aggggtcaag agttaaactt agagaccctt tgtctctgag 120  
 aagcatcctt ctaagacatt ctgttgaggt tccctcagta ctattcctta caactggagt 180  
 gggtagaagc cttatgaaaa ttatactgag aacctgcctc gag 223

<210> 516  
 <211> 185  
 <212> DNA  
 <213> Homo sapiens

<400> 516  
 gaattcgcgg ccgcgtcgac tttaaaagag tgtaatggaa gatgagaggg attctatttt 60  
 ggaccacatg ttggtgtgga ggagtgtcat tgacagtaag caccaccaggc gtgtgtctgg 120  
 gagagcattg ggtatcgctc acttctgcag gtacttgttt tttttctca tggccgaaac 180  
 tcgag 185

<210> 517  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

<400> 517  
 gaattcgcgg ccgcgtcgac gcccccagtg tcctttctgc tgcagggtgcg tttttgctgt 60  
 tcacaaaatgc ttctgtctgt ccttctttgg tgtgttctgc ctcttctcct gagactgctg 120  
 ttcttcaag ttcagggtga gtctgatctc ctgcag 156

<210> 518  
 <211> 213  
 <212> DNA  
 <213> Homo sapiens

<400> 518  
 gaattcgcgg ccgcgtcgac ctccccacat tcataaact tagattttatc aaagtagttt 60  
 cgcttctcga tgaactcagc tgctcttcca ttgtcaatag caatgcttgc ttttatcact 120  
 ctaccaaata actgtttggt gtttattgcc ctggtacagt tttgtgcaga gtctttatcc 180  
 aaaaataaaa taaatgcaac ccctttactc gag 213

<210> 519  
 <211> 196  
 <212> DNA  
 <213> Homo sapiens

<400> 519  
 gaattcgcgg ccgcgtcgac tcgggaagct ataaaaattg taaaaggctt attagtaata 60

ttacacagga tactttaagg cagccctgca gagtagcatg catctagctc ccagagtttc 120  
 tttatgcatt aatattgcac atgtttctcct tacccatgtg ggcaaggcag cccaccagcc 180  
 cctcataacc ctcgag 196

<210> 520  
 <211> 238  
 <212> DNA  
 <213> Homo sapiens

<400> 520  
 gaattcgcgg ccgcgctcgac agatgttccg gccaccccgga acctcacact gcagtgtctg 60  
 cgacaactgt gtggaacgat ttgaccatca ctgcccctgg gtgggcaact gtgtggggag 120  
 acggaactat cgcttcttct acgcgtttat tctctccctc tcattcctga cggccttcac 180  
 ctctgcctgt gtggtcaccc acctgacgtt gcgcgctcag ggaagcaact tcctcgag 238

<210> 521  
 <211> 197  
 <212> DNA  
 <213> Homo sapiens

<400> 521  
 gaattcgcgg ccgcgctcgac gtgagagctc agagctacag agcctttcag atgaatttga 60  
 aaacagactc tgtgtgtgtg tgcattgtgtg catgtgtggc atatgtgccg tatgtcagta 120  
 gcttgacagt tttcaaactc tgccctatatt tttttgcata caaaaatttt tgtgtttgca 180  
 aactcagaat cctcgag 197

<210> 522  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 522  
 gaattcgcgg ccgcgctcgac aaacttcaac acaatgaggt gttgccacat ctgcaaactt 60  
 cctgggagag taatggggat tcgagtgtct cgattatctt tgggtggcat cctcgtatta 120  
 ttactggtag ctggtgtctt gactgcctta cttcccagtg ttaaagaaga caagatgtct 180  
 atgttgcgta gggaaataaa atcccagggc aagtccacca tggactcctt tactctcata 240  
 atgcagacgt acaacagaac agatctcgag 270

<210> 523  
 <211> 208  
 <212> DNA  
 <213> Homo sapiens

<400> 523  
 gaattcgcgg ccgcgctcgac ctcatacaat tcatacttc aatcaaccct attcaaatct 60  
 tgtgcacact tactcactga tgatgccgt gaacttctgc ctcttttatg ctgttacctc 120  
 ctcttccct ctcttcacc ttagccctcc tagacctgac atcacttaca gcgggactaa 180  
 ggtgcaggga acacggccca tgctcgag 208

<210> 524  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<400> 524  
 gaattcgcgg ccgcgctcgac attttaagga agctacttga attgctcatt ctgtgacttt 60  
 atttgtgtcc taaacattct tcagtgaata taattttatt tcagtcaaac atttatgagg 120  
 aaatgagatc acatctttgt cactggatgc tacttgaaga gggagtactt tgtaaccact 180  
 ttgatatgct gttatcacca cccctgccc tccgcaaggt tctccctata 230

<210> 525  
 <211> 641  
 <212> DNA  
 <213> Homo sapiens

<400> 525  
 gaattcgcgg ccgcgtcgac ctacaagcag ctcccttcc tgctgtacca agtgacaagg 60  
 aagtttcggg atgagcccag gccccgcttc ggtctctcc gtggccgaga gttttacatg 120  
 aaggatatgt acacctttga ctctcccca gaggtgccc agcagacctc cagcctgggtg 180  
 tgtgatgcct actgcagcct gttcaacaag ctagggtctc catttgtcaa ggtccaggcc 240  
 gatgtgggca ccatcggggg cacagtgtct catgagtcc agtcccagt ggatattgga 300  
 gaggaccggc ttgccatctg tccccgctgc agcttctcag ccaacatgga gacactagac 360  
 ttgtcacaaa tgaactgccc tgcttgccag ggccattga ctaaaaccaa aggcattgag 420  
 gtggggcaca cttttacct gggtagcaag tactcatcca ttttcaatgc ccagtttacc 480  
 aatgtctgtg gcaaaccaac cctggctgaa atgggggtgct atggcctggg tgtgacacgg 540  
 atcttggtctg ctgccattga agtctctctc acagaagact gtgtccgctg gccagccta 600  
 ctggccctt accaagcctg cctcatcccc cctaactcga g 641

<210> 526  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 526  
 gaattcgcgg ccgcgtcgac ctactttatt ctgataaaac aggtctatgc agctaccagg 60  
 acaatggaat ctacgttgac tttagcaacg gaacaacctg ttaagaagaa cactcttaag 120  
 aaatataaaa tagcttgcat tgctctctt gctttgctgg tgatcatgtc acttgatta 180  
 ggccctggggc ttggactcag gaaactggaa aagcaaggca gctgcaggaa gaagtgtctt 240  
 gatgcatcat ttagagaact cgag 264

<210> 527  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

<400> 527  
 gaattcgcgg ccgcgtcgac ggcatttgtg tcgaacacga gtagcagtgg tggaaagtgt 60  
 aattggagga agattaagac tagtgtatga agaaagcgaa gatagaacag atgacttctg 120  
 gtgccatatg cacagcccat taatacatca tattgggttg tctcgaagca taggtcatcg 180  
 attcaaaaga tctgatatta caaagaaaca ggatggacat tttgatacac caccaacgct 240  
 cgag 244

<210> 528  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<400> 528  
 gaattcgcgg ccgcgtcgac ccttttttgt gaattgagtg ctgtttttgc ttttctcaga 60  
 ttccaaatga gagtatacat ttttctttgt ttgatgtgct gggtagatc tggctctgac 120  
 cctgctgggc caaggttctc cagaaaacca ccatatagca gattagatta cacggatgca 180  
 aagtttgttg atgtcatcca ttctgactcc aatgcctatt atttgttct cagtataatt 240  
 gttccagata aaactatgat gggtagaacc gag 273

<210> 529  
 <211> 412  
 <212> DNA  
 <213> Homo sapiens

<400> 529

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gaattcgcgg ccgcgtcgac ctttcattta tcatatgact tggtagaaac cgtttttctt 60
accgtataaa acctgagctc tttagttatt ttggaaaatg aaagcacgtt cattgtcgtt 120
ctgttggtt tccaacagaa cttggttctt gtggttactc aatatttcat tgtgtttagg 180
ccctgtggat ggagagttac caccaagagc tagaaatcag gccataaacc caccagccaa 240
tgctctccga ggaggagcca gccaccctgg aaggcatcct agggccaaca accatcctgc 300
tgcttactgg cagaggggaag agagatttag ggccatgggc aggaaccac atcaaggaag 360
gaggaaaccag gaggggcatg ccagcgacga agctagagac caagaactcg ag 412

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<210> 530  
 <211> 110  
 <212> DNA  
 <213> Homo sapiens

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<400> 530
gaattcgcgg ccgcgtcgac cctaaaccgt cgatggaatt ccagtacgtt ttgtgttaca 60
ttttagtctt gtttactttc tcttcattgt taagagtatg caaactcgag 110

```

<210> 531  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

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<400> 531
gaattcgcgg ccgcgtcgac agacaacatc accctagccc aagacatcgc tattagagat 60
acatcacctg gacactaaag cctccacccc agtgacactc tcaagggtgt gacaaaatgg 120
acatggacat ttgttgcttt tcttcttttg aattaggaac tctattgtgt ttcctgaatt 180
tactgtctgc ttggcccatg atcctggtat gttccttgct ctctgcaaaa acatgcaccg 240
tccccccac actcgag 257

```

<210> 532  
 <211> 195  
 <212> DNA  
 <213> Homo sapiens

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<400> 532
gaattcgcgg ccgcgtcgac tgtattcttg gtcactttct cttgcatagc tatectcatt 60
ccagtatgtt tcatgggctg cctaagaata ctgaacatac tgacttggg agtcattggc 120
tcctattcgg tggtttttag cattgacagt tactgggtcca caagccttc ctacatcact 180
tcgaacgtac tcgag 195

```

<210> 533  
 <211> 197  
 <212> DNA  
 <213> Homo sapiens

```

<400> 533
gaattcgcgg ccgcgtcgac gttttattta ttgtctttt ttctggctcc tgagtggcaa 60
acaaaggaat tttttatgct ggagatactt tgtattattg atctaagttt aatatcttga 120
cctgtttgat ctgagagtct gttatagata tgtatctatt ttcccttctt ccttccttcc 180
cctccttctt tctcgag 197

```

<210> 534  
 <211> 225  
 <212> DNA  
 <213> Homo sapiens

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<400> 534
gaattcgcgg ccgcgtcgac ctttaaccag cctcatttaa gttaatcacc tctttaaatg 60
ctcaatctcc aagtacagtc tcattctgag gttccagggg ttctcaccg taagaattta 120
gggggacaga attcagccc tagcagctgg gcagcaggac tcatgggtcc cagttctcag 180

```

gcccccaagga ctcagagcag caaaggatac gtgacagatc tcgag

225

<210> 535

<211> 177

<212> DNA

<213> Homo sapiens

<400> 535

gaattcgcgg ccgcgtcgac attctagacc agcctcacca gatggaagtt tatgcttatt 60  
ttcttatttc acttggtgt catggatctc atttcttctt tctgtctcat cctctactat 120  
tcacccctct ccatagacc atccctcctt tggctattgg aacaactcaa gctcgag 177

<210> 536

<211> 403

<212> DNA

<213> Homo sapiens

<400> 536

gaattcgcgg ccgcgtcgac cctggagctt aaaaagctgc acgcaagtgt taaacttctg 60  
acaatggcca agaacaatt aagagggcgg aagtcaggga atgtatttca catagccagc 120  
caaaaaaact ttaaggctaa aaacaaagca aaaccagtta ccactaatct taagaagata 180  
aacattatga atgaggaata agttaacaga gtaaataaag cttttgtaaa tgtacaaaag 240  
gaacttgac atttcgcaaa aagcatttca cttgaacctc tgcagaaaga actgattcct 300  
cagcagcgtc atgaaagcaa accagttaat gttgatgaag ctacaagatt aatggctctg 360  
ttgtaatat ctggtgatgc atctaattct ccacacactc gag 403

<210> 537

<211> 247

<212> DNA

<213> Homo sapiens

<400> 537

gaattcagaa cttttcagct ggggaacgag agtaccagtg agtacagctt tacgaggtaa 60  
gtctgatctt gaactttcta aggaaattca agacagtcta tcagaagtaa agtggaatat 120  
gtttggcctt gaatttttct tagtgtaga agcccttttg ttcttttca catgttatca 180  
agtggtaag gcagggcgga ttctagatga aattcaggac aatctatcag aagtaaaggc 240  
actcgag 247

<210> 538

<211> 396

<212> DNA

<213> Homo sapiens

<400> 538

gaattcagcc aaagaggcct aaaaaaggag aagaaagaaa agaaacctgc tgttggcgta 60  
tttgggatgt ttcgctatgc agattggctg gacaagctgt gcatgattct gggaactctc 120  
gctgctatta tccatggaac attacttccc ctcttgatgc tgggtgttgg aaacatgaca 180  
gatagtttta caaaagcaga agccagtatt ctgccaaagca ttactaatca aagtggaccc 240  
aacagtactc tgatcatcag caacagcagt ctggaggaag agatggccat atacgcctac 300  
tattacaccg ggattggtgc tgggtgctc atagttgcct acatccaggt ttcactttgg 360  
tgcttgccag ctggaagaca gatacacagg ctcgag 396

<210> 539

<211> 342

<212> DNA

<213> Homo sapiens

<400> 539

gaattcggcc aaagaggcct acttgatgc tagtccttgc ctggtaattg tggattaatg 60  
tcagcgtaa tcagccctc aaaggagag aaaagctggg cttttccctt gctgtacctc 120

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attcagcttt tgatttccat ggccccacca tttatgtgca agatttgcaa tggttgtcag 180
cttcctctga agaccgagct tgacgcctcc atgccagctg ccgttggaac gcaaagccaa 240
gcaagggtca ggaggggaagc tggcccggct gactggagaa tgggaacccc aggactctcc 300
actcatctcg aagggttgtg gtccccccag gaaagtctcg ag 342

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<210> 540

<211> 249

<212> DNA

<213> Homo sapiens

<400> 540

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gaattcggcc aaagaggcct atggtagctg ttcggtagat gctctttgct atttataagt 60
gactttaaac cttctcttgg ctgttaagaa atgtgttcta gatttagcta tttattgttt 120
gcggcctgca tgctgaaaca gtgcttacgt tgtctccatg tgtacggggc ctgtgtggat 180
ggtcgtatgt tttgcacatt ttgtagtgtg tgggtgtgct cgcgcacac aaaaaaagag 240
tacctcgag 249

```

<210> 541

<211> 230

<212> DNA

<213> Homo sapiens

<400> 541

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gaattcggcc aaagaggcct acagagaccg tggacaacaa aatgatggtt tctatctgtg 60
aacagaagct gcagcacttc agtgtgtgtc tcctgtctcat cctctgcttg ggaatgatgt 120
cagctgtctc accccctgat ccaagtgttg ataatgagtg gaaagaatgg aagacgaaat 180
ttgcaaaagc ctacaatctg aatgaagaaa gacacaggag acatctcgag 230

```

<210> 542

<211> 365

<212> DNA

<213> Homo sapiens

<400> 542

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gaattcggct aaagaggcct accaactgca gcctccgagc agagaacctg gtccacgtcc 60
acttcaaaga ggagattggc attgctaagc tcateccgct cgtgaccacc tacatcatcc 120
tgtttgccca catctacttc tccacacgca agatcgacat ggtcaagtcc aagtggggcc 180
tcgccctggc agccgtggtc acagtactta gctcactgct catgtctgtg gggctctgca 240
ccctcttcgg cctgacgccc aactcaatg gcggtgagat cttcccatac ctgggtggtc 300
ttattgggct agagaacgtg ttggtgtctc ccaagtcagt ggtatcaact ccagtggacc 360
tcgag 365

```

<210> 543

<211> 366

<212> DNA

<213> Homo sapiens

<400> 543

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gaattcggcc aaagaggcct aggatattca tcaaggatgg tgcagaagat gctgacctcc 60
cgaggactgt tcctgatcct gacaatgctg aacttgtctc aggttcctag tataatgggt 120
gagcagagat gggctattct ctcaactttc cctaaaccaa tgccagttcg ccatgatgct 180
atagtttttc caaaattcgt tactactgat aaaacagtgg atttgccata tttaccctat 240
gatccccacc gagcaccatt aggagaaaat cgctctttac tagaacaggg ttctttatgt 300
tttcaaatta atggaccagg aaattgtatc aacctcacag cccgagcttt gggggtgagt 360
ctcgag 366

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<210> 544

<211> 365

<212> DNA

<213> Homo sapiens

<400> 544  
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 tttttttctt tcttgtagca tctgcatctc taatggatac tgaggggttt ggtgagctcc 120  
 ttcagcaagc tgaacagctt gctgctgaga ctgaaggcat ctctgagctt ccacatgtag 180  
 aacgaaattt acaggagatc cagcaagctg gtgagcgctt gcgttcccg accctcacac 240  
 gcacatccca ggagacagca gatgtcaagg catcagttct tctcgggtca aggggacttg 300  
 acatatccca tatctccag agactggaga gtctgagcgc agccaccact tttgaacctc 360  
 tcgag 365

<210> 545  
 <211> 475  
 <212> DNA  
 <213> Homo sapiens

<400> 545  
 gaattcggcc aaagaggcct accagcgcg g acaaacatg cagcggtcgc ggggtatttt 60  
 gctgtgtaca ctgctggcgg cggcggtccc cactgctcct gctccttccc cgacggctcac 120  
 ttggactccg gcggagccgg gccagctct caactaccct caggaggaag ctacgctcaa 180  
 tgagatgttt cgagaggtgg aggagctgat ggaagacact cagcaciaaac tgcgcagtgc 240  
 cgtggaggag atggaggcgg aagaagcagc tgctaaaacg tcctctgagg tgaacctggc 300  
 aagcttacct cccaactatc acaatgagac cagcacggag accaggggtg gaaataacac 360  
 agtccatgtg caccaggaag ttcacaagat aaccaacaac cagagtggac aggtggtctt 420  
 ttctgagaca gtcattacat ctgtagggga tgaagaaggc aagaggaacc tcgag 475

<210> 546  
 <211> 436  
 <212> DNA  
 <213> Homo sapiens

<400> 546  
 gaattcggcc aaagaggcct acaacgtcta aattatgtgc cactcgcgca accatctcca 60  
 caccatgact ggctgaggg ccccttctcc agctccctcc accggcccgc aactccggcg 120  
 gggctctggt cccgaaattt tcaccttcga cctctctccg gagcgggccc tgggtgtccac 180  
 cgcgcgtttg aacactttct gcgggcaccg aaaacgcagc cgaagggtgc tctacccccg 240  
 agtggtccgg cgccagctac caaccgagga acccaacatt gccaaagagg tcctctttct 300  
 cctgttcgcc atcatcttct gccagatttt gatggctgaa gagggtgtgt cgcagccct 360  
 ggctccggag gatgctacca gcgccgtgac acctgagccc atttctgcgc ccattactgc 420  
 gcccccggtc ctcgag 436

<210> 547  
 <211> 393  
 <212> DNA  
 <213> Homo sapiens

<400> 547  
 gaattcggcc aaagaggcct acgcatccac tgccgtccgg tcagacacgc tgaaggctgc 60  
 gctctgtcga agactttgga tgtgtcgtgc attctcttgc actttctcca gcagctggcg 120  
 caccgtccgg cagtagttag ccactttgca ctcccggaga aaagatttca gctgtagaac 180  
 agtaggcaac accaactctg ggaaagcgat ggtgtgggccc tggctgcgca ggtattccag 240  
 agtaagggtca cacagctgtt ccagcagccc gtcccggtag gccttctcct gcaggttggt 300  
 gctggacagc ttcaagatca cagagaagtt gatgggcttg gagctcatgc gacctggccg 360  
 cctattgaag tccacctgct ggaaaatctc gag 393

<210> 548  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

<400> 548  
 gaattcggcc aaagaggcct agctgggttaa tcaactcata gatcttgtcc agatacaact 60

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agatgtatta tgacaaataa ctcagcaggg atgtgaacaa aagtttccgg gatttgtgtgt 120
tatttccatt cagtattgta aatttactag ggcagcta atgtcaaaaa gtctttttca 180
gtatatgtta cagaattgga tgactgaatt tgaacagacc cttcgaggct tgccatcatt 240
cagggtcaact ccacgcgctt ggacctgtcc ctgaccaaag gattacccaa ttggatctcc 300
tcagcatttt ctttctttta aaaatgggtg ggattaatat tatttggaaga tacactttgc 360
tgtggattag tgttgcttct ttgattgggc tgtaagctta aggcctaaac taggagagac 420
aagggtggta ttgcacaggc actcgag 447

```

&lt;210&gt; 549

&lt;211&gt; 313

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (220)

&lt;400&gt; 549

```

gaattcggcc aaagaggcct aaagaaaggg ggctgcagaa atggctgggg caattataga 60
aaacatgagt accaagaagc tctgcattgt tggaggagatt cttctgggtt tccaaatcgt 120
tgcttttctg gtgggaggct tgatcgctcc agcaccacaca acagcagtac cctacacggc 180
aataaaatgt gtggatgtcc gtaagaacca ccataaaacn agatggctgg cgccttgggg 240
acctaacaag tgtgacaaga tccgtgacat cgagggaagca attccaaggg aaattgaagc 300
aatgagctc gag 313

```

&lt;210&gt; 550

&lt;211&gt; 392

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 550

```

gaattcagcc aaagaggcct agaggaaatc ttaagacat ggctggagct aaggcgtacc 60
gacttggagc agttctgctt cttatccact taattttcct catctctgga gccgaagcag 120
cttcttcca gcgaaaccag ctgcttcaga aagaaccaga cctcagattg gagaatgtcc 180
aaaagtcttc tagtccagaa atgatcaggg ctttggagta catagaaaag ctcaggcagc 240
aagctcacag agaagaaagc agcccagact acaatcccta ccaaggcgct tctgttcttc 300
ttcaactcaa agaaaacgga gaagaaagcc acttggcagg gagctcaagg gatgcaactga 360
gtgaagacga gtggatgcgg ataatactcg ag 392

```

&lt;210&gt; 551

&lt;211&gt; 419

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 551

```

gaattcggcc aaagaggcct atgagcttat agcttccaag ggccccctt ggctatattc 60
ttctccatc agtcaagtgt ttaattcagt gtaacctacc agtctgtcct gggttgcatg 120
tctagcatac gtggaggttc tttttcactt tcttgacct catgtctgct tctcttgagt 180
ctttgttttt atagcaggaa gttagtattg ggggcttgaa tgatgcaggg caccaacaga 240
accattgcag gactgaaatc cccagactac cgataccttg gtggtcgggt ctcagcttca 300
ctaagaaagc agaacggctg cttatgtgta agcctctgtg acagtcaagg gggtcacac 360
ctacattatt gctgccaggg gtcacagccc tgacctttgc cttccagact tttctcgag 419

```

&lt;210&gt; 552

&lt;211&gt; 223

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 552

```

gaattcggcc aaactcttta tctgttttgt taaaacatta taattttcct aggtgaggaa 60

```

```

aatgttaggg aaattgagag tgaaggacgg ttctctggcag gtcagggggg ttatttttat 120
ttttatctat ttttttttat tgtttctcct tagctgctgt ctgttcagtt ttgagactct 180
tcagtttcta gctttatatt catacaaagg cgttcgctc gag 223

```

<210> 553

<211> 289

<212> DNA

<213> Homo sapiens

<400> 553

```

gaattcggcc aacatgacga agttaacaca gtggcttttg ggactggctc tcctgggctc 60
tgcctgggct gccctgacca tgggagcact gggcttgag ttgcctttcc cctgccgaga 120
ggctcctggt ccactgcctg cctacctgtt ggtctccgct ggctgctatg ccctgggcac 180
gggtgggctat cgcgtagcta cattccacga ctgcgaggac gctgcccag agctgcagag 240
ccagatcgtg gagggccgag ctgatttagc acgcaggggc attctcgag 289

```

<210> 554

<211> 331

<212> DNA

<213> Homo sapiens

<400> 554

```

gaattcggcc aaagaggcct agttttctcg ctatattcca ggtcctacag tgtgtttttc 60
tcagtttgga agtttttcag tgtttctcat catattccag gacatacatt tttcaagtca 120
atttttccac gttattcagt tttctccaca cattccaggt catagagtgt ttgtgtctct 180
tttccatggt tttcagtttc ctcccataat ccaggtaacta cagtgtgttt ttttccattt 240
atctcggtat ataccatttt ttaccatatt ccaggtccta ctcttggtgt tctcattttc 300
catgatttta cattttcatg ccttactcga g 331

```

<210> 555

<211> 391

<212> DNA

<213> Homo sapiens

<400> 555

```

gaattctgcc aaagaggcct accagcacc ggtgccagg gcatggagc cccgggcagt 60
tgcggatgcc ttggagaccg gagaggaaga tgcggtgaca gaagctctgc ggtcgttcaa 120
ccgggagcat tctcagagct tcacctcga tgatgccag caggaggaca ggaagagact 180
cgcaaagcta ctggctctccg tcctggagca gggcttgta ccaaagcacc gtgtcacctg 240
gctgcagact atccgaatcc tatcccgaga ccgcagctgc ctggactcat ttgccagccg 300
ccagagctta catgcactag cctgctatgc tgacattacc gtctcagagg aacctatccc 360
acagtcccca gacatggatg tcctctcga g 391

```

<210> 556

<211> 480

<212> DNA

<213> Homo sapiens

<400> 556

```

gaattcggcc aaagaggcct aagacgatca gataccgtcg tagttccgac cataaacgat 60
gccgactggc gatggtggca aaggcaattg aggaggattc tgaatgatgc ggcccatttc 120
tacacctcca aaaatcacct gtccaggatt ggagtaccga ctggagactg ggtactgggt 180
agcagcatca cctgcatgct ctgctgaccc tacagctgtt gtctgatttg ttaagacatc 240
caactgcaca ttttgatttg ccagcagggg ctgcaccagc cctatgctct gggtgggaga 300
cagagcttga gcagagctgt ggattggtgc aatagggatg ttcactgtac agggcgggtt 360
gttttcaggg acacctgatg ctctgtgaac tggtaagtca tcctcatctt cactgaaaac 420
gtttgggttg aagacaggca ggtaatatata gtccatggaa atcttctaa cttcctcgag 480

```

<210> 557

<211> 406

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 557

```

gaattcggcc aaagaggcct agatgaagaa agcacacgtg tttgggatca cgttctcctt 60
caccaggcc atgatgtatt tttcttatgc tgcttggttc cggttcggtg cctacttgg 120
ggcacaacaa ctcatgactt ttgaaaatgt tatgttggtt tttctgctg ttgtctttgg 180
tgccatggca gctgggaata ctagtccatt tgctcctgac tatgcgaaag ccaaagtatc 240
agcatctcat atcatcagga tcattgagaa aaccctgag attgacagct acagcacaga 300
gggcttgaag cctactctgt tagaaggaaa tgtaaaattt aatgaagtcc agtttaacta 360
tcccaccgca cccaacatcc cagtgcctca ggggctgagc ctcgag 406

```

&lt;210&gt; 558

&lt;211&gt; 337

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 558

```

gaattcggcc aaagaggcct atctgaatat gcgttggttg gcagctcggg tcaactataa 60
gactttgatt atcatctgtg cgctattcac tttggtcaca gtacttttgt ggaataagtg 120
ttccagcgac aaagcaatcc agtttcctcg gcacttgagt agtggattca gagtggatgg 180
attagaaaaa agatcagcag catctgaaag taaccactat gccaaaccaca tagccaaaca 240
gcagtcagaa gaggcatttc ctcaggaaca acagaaggca cccctgttg ttgggggctt 300
caatagcaac gggggaagca aggtgttttg gctcgag 337

```

&lt;210&gt; 559

&lt;211&gt; 374

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 559

```

gaattcggcc aaagaggcct acctcaacgc caccaccgcc tcctcactcc atggccatga 60
gagccgcctg cctcttctcg ctgttcatgc ctggcctgct ggctcagggc caatatgacc 120
tggtatctct cccccattc ccggaccatg tccagtacaa ccactatggc gaccagattg 180
acaacgcaga ctactatgac taccaagaag tgagtctctg gaccctgaa gagcagttcc 240
agtcccagca ccaagttcaa caggaagtca tcccagcccc taccacagag ccagcagctg 300
caggggacct ggagactgag cctaccgagc ctggccctct tgactgccgc gaagaacagt 360
acccattact cgag 374

```

&lt;210&gt; 560

&lt;211&gt; 285

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 560

```

gaattcggcc aaagaggcct agccgctgcc gtcgccatga cccgcggtaa ccagcgagag 60
ctgcccgcgc agaagaacat gaagaggcag agcgactcgg ttaaggaaag cgccgagatg 120
atgggctttc tgctgccgcc cgcaagcaga gggactcgga gatcatgcag cagaagcaga 180
aaaaggcaaa cgagaagaag gaggaacca agtagccttg tggtctcgtg tccaaccctc 240
ttgccctcgc cctgtgtgcc tggagccagt cccaccatgc tcgag 285

```

&lt;210&gt; 561

&lt;211&gt; 425

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 561

```

gaattcggtc aaagaggcct acgaggagaa ttgagaccaa acctgtgata acctgtctca 60
aaacctcct catcatctac tccttcgtct tctggatcac tggggtgatc ctgttggccg 120
ttggagtctg gggaaagctg actttgggaa cctatatctc cctgattgct gagaactcca 180

```

caaatgctcc ctatgtgctc attggaaccg gcaccaccat cgtgggtttt ggccctcttg 240  
 gatgctttgc tacatgccgt ggtagtccat ggatgctgaa actgtatgcc atgttcctgt 300  
 ccttggtgtt cctggctgag cttgttgctg gcatttctgg atttgtgtt cgtcatgaga 360  
 tcaaggacac cttcctgagg acttacacgg atgccatgca ggactacaat ggcaacgaac 420  
 tcgag 425

<210> 562

<211> 238

<212> DNA

<213> Homo sapiens

<400> 562

gaattcttca gctgaggaac ggtggtacca ggtgaagaaa atccactttg ggtcccgacg 60  
 cgactgacaa ggaccgtgaa agagcaagat gaacccaag atgattctcc tgctcctgat 120  
 gattgagaca gggataagta tacctttgtg ggccatagta agatcatggc cagtaccttt 180  
 accggtacat tccaattctt ctaccttgcc ttattttttt gcaacagaaa ctctcgag 238

<210> 563

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (203)

<400> 563

gaattcggcc aaagaggcct agtttgagca cttcagcctc tttttgtct gcgtgtttca 60  
 gatcaacgtc ttcttctaca cagtccatt agccatcaaa ttaaaggagc atcccatctt 120  
 cttcatgttc attcagattg ccatcatctc tatcttcaag tcctatccaa ctgtggggga 180  
 tgtggccctc tacatggctt tcnttccctg tgtggaacca tctctacaga ttctgcgga 240  
 acatcttctg cctcacctgc atcatcatcg tctgctctct ttcttccctg tgtggaacca 300  
 tctctacaga ttctgcgga acatcttctg cctcaccggc atcatcatcg tccttcgag 359

<210> 564

<211> 399

<212> DNA

<213> Homo sapiens

<400> 564

gaattcggcc aaagaggcct agctttggctc tggaccgagc ggggcagcgt cccgggctcc 60  
 cgagtgtctc ccatggcgga tacgaccccg aacggccccc aaggggcggg cgctgtgcaa 120  
 ttcgatgata ccaataaatt ggacacagca atgtggcttt ctgcctgtt cacagtattat 180  
 tgctccgctc tgctcgttct gcctcttctt gggttgcatg aagcagcgag cttttaccag 240  
 cgtgctttgc tggccaatgc tctgaccagc gctctgaggc tgcacagag attacctcac 300  
 ttccagttga gcagagtgtt cctggctcag gccttgtagg aggacagctg ccactacctg 360  
 ctgtattcac tcatcttctg caactcctac cccctcgag 399

<210> 565

<211> 373

<212> DNA

<213> Homo sapiens

<400> 565

gaattcggcc aaagaggcct aggcgacaag agtctggagg tggcgggtatg gaatccatt 60  
 aaggtgcatg tgggagtgag ccgagtctct ttgaccaggc tagagcgcca gcgtcctct 120  
 gaaccggcac actttggcaa agttgcaatg gcctgtttgc ttaggcactg aagtggatga 180  
 tggttaggat gacaacttgc agagaacgcg gatgagacct tcagtgtgtg cccactca 240  
 tttgcagcaa ccctaacaga gattgtgaag attttcaaag tggggcacct cgatttctcg 300  
 aatctgtggt gtggcgaata tccgtgttcc tctgcttaa ctagcctgtt tgaaggcaca 360

gttcattctc gag

373

&lt;210&gt; 566

&lt;211&gt; 133

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 566

gaattcgcgg ccgcgtcgac gcctcactca attcatgctt ttctctccag cagtgatgaa 60  
 ctgctgggct ctgactaaac acttgatggt atttcaagct gttgaccttt gctcatttct 120  
 caaccctctc gag 133

&lt;210&gt; 567

&lt;211&gt; 281

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 567

gaattcggcc aaagaggcct acttttcccc actgcaaaac caggctcggc ttccctcgtg 60  
 ctcacttacc tatagtgtat ctgaggtata ttttgacgt gttttcttac atggtaata 120  
 acatgctcgc cctcaccatt ttctcattt tattttcctt tcgccttaat ttattttgcc 180  
 ttgcactttg cacttgcttg aaagggatga ggataccaaa gggggaaaat tcacctgttt 240  
 tagggggaaa ttctctatt tttatgaatg gtgcactcga g 281

&lt;210&gt; 568

&lt;211&gt; 624

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 568

gaattcggcc aaagaggcct acctcccggc tgctgcgggt gccctggatc cagtcggctg 60  
 caccaggcga gcgagaccct tccctgggtg aggctcagag ttccggcagg gtgcatccgg 120  
 cctgtgtgtg gcgcgaggca gggaagccgg taccggggtc ctggccccag cgctgacgtt 180  
 ttctctcccc ttctctctct ctctcggtt gcggcgtcgc agacgctagt gtgagcccc 240  
 atggcagata cgaccccgaa cggcccccaa ggggcgggcg ctgtgcaatt catgatgacc 300  
 aataaactgg acacggcaat gtggctttct cgcttggtca cagtttactg ctctgctctg 360  
 ttgtttctgc ctcttcttgg gttgcatgaa gcagcaagct ttaccacacg tgctttgtg 420  
 gcaaatgtgc ttaccagtgc tctgaggctg catcaaagat taccacactt ccagttaagc 480  
 agagcattcc tggcccaggc ttgtttagag gacagctgcc actacctgtt gtattcaactc 540  
 atctttgtaa attcctatcc agttacaatg agtatcttcc cagtcttggt attctctttg 600  
 cttcatgctg ccacagcact cgag 624

&lt;210&gt; 569

&lt;211&gt; 467

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 569

gaattcgcgg ccgcgtcgac gtgctgggac atgagatgta ttctcttctt tgttcctcac 60  
 tctatctctg tgggtggaaa aaattactcc cattctatag aagagagacc agaacctccg 120  
 agaggacaag caactttctt agggggcaca gctaggaggg taggctgaat aatgatcccc 180  
 ctaaaatgtc cacattctaa tcccaaaaac ttatttaaaa agggactttg caggggtgac 240  
 tgagttaagg atcctcagat gaggagggtt tcatggattg tttgggtggg cccaatgtaa 300  
 tccaaggatc ctttcaagag caaggcagga gggccagagt cagagaaaaca gacacgacaa 360  
 tggaagcaga ggttgggggtg atactggagt gggagggggc accagccaag gaatgcaggc 420  
 agcctctagg agctggaaaa ggcaagaaag catgtttcct cctcgag 467

&lt;210&gt; 570

&lt;211&gt; 269

&lt;212&gt; DNA

<213> Homo sapiens

<400> 570

```
gaattcgcg cgcgctcgac gctgggggaa aaaagaaact aaatcaaata aaaataaatt 60
ttcaaatttc atcaacaagt ggtacattca gtataaaact acaaatgccc atatagatta 120
ttacaaagggt acataccaat caagaactag gcacacacac caggaactgt gcatacatac 180
taaatacattc attacagatt tttactttat tgtgaagtat attcaataaa atataagtga 240
cagaaatgag aaaatccaca gtcctcgag 269
```

<210> 571

<211> 208

<212> DNA

<213> Homo sapiens

<400> 571

```
gaattcgcg cgcgctcgac ataaaaagta tagtaaatac ataaaccaat aacatagtca 60
cttattatca ttatcacata ttatgtactg tgcactgttg tacgtgctgt actttttatac 120
agctggcagc acgggtttgt ttgcaccagc atccccacaa acatatgagg aacatgtaca 180
tcttaccacg gttgcaactt cactcgag 208
```

<210> 572

<211> 178

<212> DNA

<213> Homo sapiens

<400> 572

```
gaattcgcg cgcgctcgac tccctactga agatagcttt gcttgaatga gcttgcctgc 60
agtgcgaatg ctggggctta ttgtgttgac ggcgcagtcg ccatgggtgc tgcgtcctga 120
ggacatgggt acttccctga ctatctgtca tgcctcactg gtaccccgta gcctcgag 178
```

<210> 573

<211> 172

<212> DNA

<213> Homo sapiens

<400> 573

```
gaattcgcg cgcgctcgac tgccagagag tttatagtag ttgaatatgg attatgaaca 60
gttactttta tttttaattt tttgggggac ggaatcttgc tctgtcacc caggctggagt 120
gcagtgggtgc gatctcagct cactgcagcc tctgcctcct gggttctctg ag 172
```

<210> 574

<211> 183

<212> DNA

<213> Homo sapiens

<400> 574

```
gaattcgcg cgcgctcgac tgcttttgga ggacagagtg aatttctccc aaattactgt 60
cttctgcctc ctaaatcagg accacatttt tcagggtgtg ttatttgggg aacgaggcct 120
ggctctgtgt cgcgtgtatt gctgatgaag ctaaaaatta agggattaat ggcacccctc 180
gag 183
```

<210> 575

<211> 224

<212> DNA

<213> Homo sapiens

<400> 575

```
gaattcgcg cgcgctcgac cctttttcag tattgtttca ggaaatggta ttgtttgttt 60
ttattttact ttttactgtt tcctgggtac atgaccaatg tcatttgact ggtgagtaca 120
ttgagctagc agcttttagag aaatttcagt gtgatctaga gatgcatgac agctccctgc 180
```

actggcagcc tactttacaa ctaccatctg agaagggact cgag 224

<210> 576

<211> 249

<212> DNA

<213> Homo sapiens

<400> 576

gaattcgcgg ccgcgtcgac cagaaaacca atgtttaaca ttcacagagg attttactgc 60  
 ttaacagcca tcttgcccca aatatgcatt tggtctcagt tctcagtgcc atctagttat 120  
 cacttcactg aggatcctgg ggctttccca gtagccacta atggggaacg atttccttgg 180  
 caggagctaa ggctcccag tgtggtcatt cctctccatt atgacctctt tgtccacccc 240  
 aatctcgag 249

<210> 577

<211> 251

<212> DNA

<213> Homo sapiens

<400> 577

gaattcgcgg ccgcgtcgac catccttttg gacttcagtt cctgcttttc tttgtgaatt 60  
 ttcccttatt cgtatcctgt ccatattcct aagcaataca taccgtaggt ttgcctgtat 120  
 ttaaaagtgg catcatgtcc tttacgttat tccagtttgc ttttttgta ctcagcatta 180  
 tatcttggga tacatccatg ttgatgcagg cagctgaggc tcatttactt tttcccact 240  
 gcaaactcga g 251

<210> 578

<211> 161

<212> DNA

<213> Homo sapiens

<400> 578

gaattcgcgg ccgcgtcgac agaggttgtt ccgccttga gagttaagcg aagtgtggtg 60  
 gttccaagg aatacaaa taaaggcctt cgaccgttgc aaatagacta aagtgaaaac 120  
 aaatctgaat gaagatgaag ttatttcaga cggttctcga g 161

<210> 579

<211> 173

<212> DNA

<213> Homo sapiens

<400> 579

gaattcgcgg ccgcgtcgac gcacgcactt catctgggcc tgcagtgaag aagtattcta 60  
 gttggagtgc tgcaaaccca gccttaatga tctttggcaa agcaactttgt gtcagtgtcg 120  
 cttccagata cttctgtctc tcttcagcac tcaattcttg caactgcctc gag 173

<210> 580

<211> 160

<212> DNA

<213> Homo sapiens

<400> 580

gaattcgcgg ccgcgtcgac agatgcccat gaattcttaa attacctact aaatacaatt 60  
 gctgatattt tacaagaaga gagaaagcag gaaaaacaaa atgggtcgtt acctaattgg 120  
 aatattgata atgaaaataa taacagcaca cccactcgag 160

<210> 581

<211> 262

<212> DNA

<213> Homo sapiens

&lt;400&gt; 581

gaattcgcg cgcgctcgac tgaattctag acctgcctcg agccgtgcta ttactttcac 60  
 ctctttcatt gcttgtggaa aaacccttat ccagggaaga attaataact tcaacaatac 120  
 tatcaaagga gggcctaaaa ttaaaaaaaa aaaagaaaca aaaaagttgt gaaacaacaa 180  
 caacaacaat acttggaaca ctctgacag acttagggag aatattatga tattgaggct 240  
 gctgttgact aaggcactcg ag 262

&lt;210&gt; 582

&lt;211&gt; 175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 582

gaattcgcg cgcgctcgac ggattcttca ttactacatc tgaaaagctt ctcatctaga 60  
 aggtatttat ctcaaaattc atttgtgtgt ttcaaacaga atttcacaaa attctggtct 120  
 ttaacaataa ataattgtga ttctaacaat cagaattgta acaggaatac tcgag 175

&lt;210&gt; 583

&lt;211&gt; 179

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 583

gaattcgcg cgcgctcgac gagatatctg tatttaaaaa aaagggtttt tttccttaaa 60  
 tgtgcaaaac agcacagggc agtttagggc tcttcatagc tatcttcacg tacacattta 120  
 tttggcttac gagcactctt ctctctcagc ttttcccatc ccctatcgcc accctcgag 179

&lt;210&gt; 584

&lt;211&gt; 242

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 584

gaattcgcg cgcgctcgac aggagctgct gtggagaaag gtatactatg aagttatcca 60  
 gcttatcaag actaacaata agcacatcca cagccggagc actttggaat gtgcctacag 120  
 gagcacctg gttgctggta ttggcttcta ccagcatctc cttctctata tccagtcca 180  
 ctaccagctg gaactgcagt gctgcacga ctggacccat gtcactgacc cccatgctcg 240  
 ag 242

&lt;210&gt; 585

&lt;211&gt; 240

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 585

gaattcgcg cgcgctcgac ccagaaaaga aaagatagtg atttaacaaa cttttcctgc 60  
 tcacctacat tgtcttcatt catatttatt agaatgacca acatacttta ccattccttc 120  
 aatcacttta atttcattat gtttggttaa tttttcttct tgataaacca gttgtccctc 180  
 agtatactcc agggattcat tccaggagca cctgtgtata ccataattca cacactcgag 240

&lt;210&gt; 586

&lt;211&gt; 177

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 586

gaattcgcg cgcgctcgac cactttcact gggccagaca gaaaacaaga aatctttttt 60  
 gtgttggaat atcaaagagg catgctttta cagaaacttg ctttgcatat ttttcacct 120  
 gtgctggtca tgatactttc agtccatcac caaggagggg taaaatacac tctcgag 177

&lt;210&gt; 587

&lt;211&gt; 147

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 587

```

gaattcgcg cgcgctcgac gatttttctg gggggaggat tggtttatgg aacgaattat 60
ttcttatttt tcatggcaac ctacaaattg acttcctttg ttctcatcac cgtctttgtt 120
gttagaatat gttcagagag tctcgag                                     147

```

&lt;210&gt; 588

&lt;211&gt; 288

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 588

```

gaattcgcg cgcgctcgac accaaataga actgtaaaca gtttgtcaac taataagctg 60
aatttctggt tgaagtacag ttggaacagg ttatctccac atttgggtct ttacctctt 120
agcatagtgt gatttctttt ctctttttta aaaatccacc tccttctctt ctagcatagt 180
gtgatttctt taaatctttt ttatcctatg ctaaatgtat gggttttttg ttgtttgtt 240
tggctcact ctgtcaccca ggctgaagtg ttcagtggcc gtctcgag                288

```

&lt;210&gt; 589

&lt;211&gt; 210

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 589

```

gaattcgcg cgcgctcgac ctccatgac tggctttacc tctcaggact ccccccattc 60
ttaccattgt ttgttgatct ctgggtgcagc caaatgaagc ccatcatgct tgcctctg 120
ctggaagctc ttccttccct ctctctggcc aatggctact gtcccttcag agcactgtt 180
cagatgaaac ctccaccaag caccctcgag                                210

```

&lt;210&gt; 590

&lt;211&gt; 229

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 590

```

gaattcgcg cgcgctcgac ccgggtagta ttccatcata tatatataat cagatatata 60
tacataatca gatatatata tatataatca gatatatata tatcagtttc ttatccact 120
catttgcaat tatttaattt ttaaataaaa cactttataa acacataaaa ttatgagatc 180
tctagtata ttctcatgc taagccactg tgcttacctc tgcttcgag                229

```

&lt;210&gt; 591

&lt;211&gt; 152

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 591

```

gaattcgcg cgcgctcgac ctccattctt tcatgtgtag gtttaatat gtggacccaa 60
tctgtgttct ggtaatggaa ttaatttga taacatcatt agggctgggc acagttgctc 120
atgcctataa tcccagcact gaaaagctcg ag                                     152

```

&lt;210&gt; 592

&lt;211&gt; 175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 592

gaattcgcgg ccgcgtcgac caaagattcc tacccaatcg tgtacacact gtctctaate 60  
 tcctctcttt gcttggcctg gacctgtgaa tatgataatc acgcccttga ctgctttact 120  
 tagtatagga ctccatttta gcagaatgaa gagtgtttcc cctactgac tcgag 175

<210> 593

<211> 235

<212> DNA

<213> Homo sapiens

<400> 593

gaattcgcgg ccgcgtcgac tctgtattct aatgaatagt aatagctgac attaatgaga 60  
 actgtatttc agacaccgtg ctaagttctt ttcattgtatt atctcattta atctttgtaa 120  
 caaattgatg aggtgggtca tatttttatt tatttattta tgtttgagac agggctcttg 180  
 tctgtctgct aggtggagt gcaatggagc tatcactcct cactgcagcc tcgag 235

<210> 594

<211> 244

<212> DNA

<213> Homo sapiens

<400> 594

gaattcgcgg ccgcgtcgac aaatctatca gtgcagtata tatacaacct tgtcagacga 60  
 gtagctgaca aaggaatctc cctagtacaa cttgtagcag tactattata aagaattcct 120  
 gacttgacac attttgatga agttgggtga aataatttgt tgggtttggt caatttttgg 180  
 tgtcatttat ataaaaagaa taaagaagaa tgtgaatggt aggaagtcag gcgagatgct 240  
 cgag 244

<210> 595

<211> 229

<212> DNA

<213> Homo sapiens

<400> 595

gaattcgcgg ccgcgtcgac tgatgggtct cctgtacccc agggcatggc cctgtatgca 60  
 ccacctctc ccttgccaaa caatagccga cctctcacc ctggcactgt tgtttatggc 120  
 ccacctcctg ctggggcccc catgggtgtat gggcctccac cccccaact ctccatcccc 180  
 ttcacctcta tgggtgtgct gcattgcaac gtcccagaac accctcgag 229

<210> 596

<211> 218

<212> DNA

<213> Homo sapiens

<400> 596

gaattcgcgg ccgcgtcgac gagaattggt tttagcagag tttgtgacca aagtcagagt 60  
 ggatcatggt ggtttggcag caggaattt gtcttggttg agcctgctct gtgctcccca 120  
 ctccatttct ctgtccctct gcctgggcta tgggaagtgg ggatgcagat ggccaagctc 180  
 ccacctggg tattcaaaa cggcacacac aactcgag 218

<210> 597

<211> 153

<212> DNA

<213> Homo sapiens

<400> 597

gaattcgcgg ccgcgtcgac ttctagacct gcctcgagca aataaaaaac ccagttctaa 60  
 atcataaaaa tagaagacc agttctagtc atgtggcatt catttatctt ttgggggaatg 120  
 tcctctctat gcctttgtag aacacaactc gag 153

<210> 598

<211> 194

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 598

```

gaattcgcgg ccgcgtcgac atttttccct gtttttggtta aggtaatgaa gaaggaaaaa 60
aaaaatctca tccaaagatg caaagaaaca atctgctggc ccaggtcatt tccatggtat 120
ctttttgttt ctcttttctt tgttttgtaa gtacatgcat tttggctgaa aaagatacag 180
gcaccattct cgag 194

```

&lt;210&gt; 599

&lt;211&gt; 232

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 599

```

gaattcgcgg ccgcgtcgac cagaaaccca taaagatttc ttttaaggatt tggatccgat 60
atctttctga attagggcct aaattattat gaatgtgaac ctagggtata tgtcttgcc 120
gtggtatgtg tgctgcgata ctttgaagca gaatgatttg tggatcattt taccagtcct 180
ttctcttttt tggtc aaatg cagatggcat ggaggaaatg gaaagactcg ag 232

```

&lt;210&gt; 600

&lt;211&gt; 227

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 600

```

gaattcgcgg ccgcgtcgac cacaggtttt gaggaacacag agagctaaaa gttggagtgt 60
ttattctatc cacttttttag actttgcaag agtgtgcatc cacaatcaca tatatatgga 120
tggaatcact gaatcttttt catctcctat tcagaataca tctgcttctt gctttcaca 180
tgtgcaattt tgctcttttc tgttgtgcag ctatgggaga actcgag 227

```

&lt;210&gt; 601

&lt;211&gt; 198

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 601

```

gaattcgcgg ccgcgtcgac tgaagaacgc cgaaagaagg aagaacaagt catacagggt 60
taaattctgt ttcaacttgt tgctagttat cttagatttg tgcccaaagt gtatcagcaa 120
atgttcaagg tttttatact tgtcaaggct gttttcatta ttcacgtgtt aaaagtgaca 180
tcatcttccc aactcgag 198

```

&lt;210&gt; 602

&lt;211&gt; 233

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 602

```

gaattcgcgg ccgcgtcgac cagaatcaaa tataaggcta aaattattag tgcatacagt 60
gaaattgagc aacccgctgt gttagaaatt aaaagggtgag ttctgttatt caccaactgt 120
taatttagcc caaaaagtgc cgagaaggag ttgggagtgg actccaatct gttatgaaag 180
tgagacaaac attcttgctt cttctgatcc ctttcagtag cagttctctc gag 233

```

&lt;210&gt; 603

&lt;211&gt; 119

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 603

```

gaattcgcgg ccgcgtcgac gattaattct agacctgcct cgagcgctat cttttcactt 60

```

tggggcacag ttttacacgt gataacaata gtagctgat ttccaagggt ctcctata 119

<210> 604  
<211> 188  
<212> DNA  
<213> Homo sapiens

<400> 604  
gaattcgcg cgcgctcgac ggctccttga ggaataacct tacaacgtt taaagacttt 60  
taattttaat ttttattttc tttccagctt tattgaagta taattgacaa ctgaaagact 120  
agttggtaat tgaaattagg actcattttt atagtcagac aatgttaata tttaggagga 180  
gtctcgag 188

<210> 605  
<211> 193  
<212> DNA  
<213> Homo sapiens

<400> 605  
gaattcgcg cgcgctcgac ccagtatgtc tttctatttg tattcactat gtctactttc 60  
gttccagatt acagagtttag actattcccc cttttcttca tgctgtttgc agattaccaa 120  
agttccagag aacctgctac cctttgcagt gcagtgcaga aacctcactg tgtccaatac 180  
ccgaacactc gag 193

<210> 606  
<211> 173  
<212> DNA  
<213> Homo sapiens

<400> 606  
gaattcgcg cgcgctcgac ctggagtgc tggtgttgc ctccggaatg ctggtgccgg 60  
aactcgctat cctgttgc tacctgctgg gggcactgac catgctgagt gaaacgcagc 120  
acaagctgct ggcggaggcg ctggagtgc agaccctgtt ggggccgctc gag 173

<210> 607  
<211> 310  
<212> DNA  
<213> Homo sapiens

<400> 607  
gaattcgcg cgcgctcgac cttttcacct tctaggagat cgactcacct tcttttccct 60  
acctttctat tgcattttaa ttttggtgac taaaatttta ctttctaaga gtcacatttg 120  
ttttctgatg gtttttcttc ctctctctca atcccaacca tccccctcc ttcctggca 180  
tcaactgcctt tcccccttc ctttttctc ctctctccct ctctctcacc cctcttctt 240  
ctctctctc cttctgtgc tctctctct cctctttct ccacctgcat cctgttcccc 300  
agccctcgag 310

<210> 608  
<211> 189  
<212> DNA  
<213> Homo sapiens

<400> 608  
gaattcgcg cgcgctcgac agaggcaata cagtaaaaat tacacggtag aaactgagtt 60  
accagtgcac accaaaactt gggtagggag aatataccta aagttgtcct tagaaggaaa 120  
attgtagttc tgtatatcaa catattaaag atgaaaataa aatttaaaac aatagcaca 180  
agcctcgag 189

<210> 609  
<211> 188

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 609

```

gaattcgcg cgcgctcgac gagttaagt gcagaaccgg gattcaaact caagttctcc 60
ctaacatcct ggaagccaag ggaaaggagt aatgaaatat gaaagtgaga aacactgttg 120
gctgggcatg gtggctcctg cctataatct cagaactttg ggaggctgag gcaggcagat 180
cactcgag                                     188

```

&lt;210&gt; 610

&lt;211&gt; 202

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 610

```

gaattcgcg cgcgctcgac ctttcttgta ttctctttat cttcctcagc tatcttctgt 60
ataatcct cagatctatc ttctagtta taaattttct tcaacctga ctaattttat 120
gttatacttg tccaagatgt ttttaatttc agtgacaata tttttcattt tgaaagtctt 180
gttttttggc cagactctcg ag                                     202

```

&lt;210&gt; 611

&lt;211&gt; 166

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 611

```

gaattcgcg cgcgctcgac gattgatttt tcatatgttg aatcatcctt tcgttttggg 60
tttattctgt taggtcatgt tgtgtaattc ctttttatat gttactggat ttagtttctt 120
agcggttttt gaggattttt gcatctttaa ttgtaaggga ctcgag                                     166

```

&lt;210&gt; 612

&lt;211&gt; 152

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 612

```

gaattcgcg cgcgctcgac gaagatacta aaactacttt ttctcccaca ggataattgt 60
agacgtacat tcaaaataga agtaaatata tggtaatat agttcttcta tttttaatta 120
atagattaaa cttttggacc acggcactcg ag                                     152

```

&lt;210&gt; 613

&lt;211&gt; 194

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 613

```

gaattcgcg cgcgctcgac tagtagtggt gcattgtggt ttttaatttc atttccttga 60
tgaccattga agttgagcac attttcatat ttatagatca cttcagtatc ctgttttggt 120
tagtgtctgc taaaatcttt tctccatttc tctattgggt tgtctttttt tctgttttaa 180
gcaacacact cgag                                     194

```

&lt;210&gt; 614

&lt;211&gt; 258

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 614

```

gaattcgcg cgcgctcgac ctttttagtaa aagtaaatat ttctgtctct ttttctgctt 60
tttattttcc tgctccagtc tgtgttattt attttctatt ttcttttaac ttgctttgga 120
tttaatttgc tgttttctaa tttctcaagg tagaagccca gatttttgat ttgagacctt 180

```

tcttttcttt ttttgaatat aagcatttga taatctgtgt tttcctttat gtactgcttt 240  
tgctgtgtcc tgctcgag 258

<210> 615  
<211> 188  
<212> DNA  
<213> Homo sapiens

<400> 615  
gaattcgagg ccgcgtcgac ctttcttga acaagatgat cgtgagtcag ctgtcctata 60  
acgccggtgc tctgacctgg ctgtcctgcg ggagcctgtg cctgctgggg tgcatagcgg 120  
gctgtgtgctt catccccctt tgcgtggatg cctgcagga cgtggaccat tactgtccca 180  
tactcgag 188

<210> 616  
<211> 149  
<212> DNA  
<213> Homo sapiens

<400> 616  
gaattcgagg ccgcgtcgac gtccattcat tgattcattg aatgattcat ttactcaata 60  
agcatatatt tgggtgccatc ttggcccagg cactatgctg ggcattagag aaatttgaca 120  
gtgggttagg gcaaggccct gccctcgag 149

<210> 617  
<211> 193  
<212> DNA  
<213> Homo sapiens

<400> 617  
gaattcgagg ccgcgtcgac aggatttaac ctatagagtt ctgattcttt cttcccttca 60  
atttttatca agtatttaat tgccacttgg atgatttatt ttagaattgg cctacttttt 120  
tttttttttg gcttcagtgc ctgtgggcaa atgtaaattt gcagctgaat tagcaaacca 180  
gggacgactc gag 193

<210> 618  
<211> 233  
<212> DNA  
<213> Homo sapiens

<400> 618  
gaattcgagg ccgcgtcgac atctgtaagt ctctctttac ctcttctctt ctctctttct 60  
gcctccctcc ttttctcttt agtttcccca gagtgttgc gagctaagg tcaatcagag 120  
gactctttaga taccttaatt ttttttggtt ttatttttga agaaagggat catcgttccc 180  
attaggacat gtatttataa tgtgttttct tttgcttgc caccacactc gag 233

<210> 619  
<211> 211  
<212> DNA  
<213> Homo sapiens

<400> 619  
gaattcgagg ccgcgtcgac caaagttgtg tttaaacaat catataatgc tctgcctgga 60  
aggagtctta ataaatactt tctccctca ctttacatca ccagtgatgt ttttaaagtc 120  
ctttatagat tgggtgtctg ggtattgcct agctgacct tccctaattt tccccgggc 180  
gccccaccg ccaccaaca caacactcga g 211

<210> 620  
<211> 187  
<212> DNA

<213> Homo sapiens

<400> 620

```
gaattcgcgg ccgcgtcgac ttttgttgc gttagtatcg tcgcaacagc aaagagttta 60
ataacatttta ttttctagtg tattgcagta atcattcttc ttttttttaa atttctaagc 120
tgttttatta aatgaaaaga gaacaatgct aagcagcttg tatggtgtgt gtgtgtgtgt 180
gctcgag 187
```

<210> 621

<211> 170

<212> DNA

<213> Homo sapiens

<400> 621

```
gaattcgcgg ccgcgtcgac gttgattatc aaattgtttt tgagtgaagt ttggtagttt 60
gtgtctttta aggaattggt ccattttttt ttttaattgt caaatttggg ggcataaagt 120
tatttatgct gttaccttac tatcttttta atatccgtta tggctctcgag 170
```

<210> 622

<211> 247

<212> DNA

<213> Homo sapiens

<400> 622

```
gaattcgcgg ccgcgtcgac gttttaaaaa attctgttta atatctgctt agttggctgg 60
ctgcctttgt gttttcccta ctagattgta agctcctaga ggacaaatta cagagcttat 120
ttattggtgg tttaatttaa atacattttt ttctctacag attagtgcac accagtctgc 180
acagatgcga gttatatctg taaacttgct tggatatttg gtttacatac actatcatac 240
tctcgag 247
```

<210> 623

<211> 244

<212> DNA

<213> Homo sapiens

<400> 623

```
gaattcgcgg ccgcgtcgac gattagcaga ataacatcgg atcaaaaactg tctagcctgc 60
agttccccctt aattttgtat tataaaaaga aaactaaaca gagaaaactt taaaagacaa 120
tataatgata ccacgtagat tccagtactt gttaacagtt tgccatattt gttcgtctgc 180
tgtgtctttt cggaaccatt tgaaaattgt agatatgaca tttcacccca acaccagct 240
cgag 244
```

<210> 624

<211> 135

<212> DNA

<213> Homo sapiens

<400> 624

```
gaattcgcgg ccgcgtcgac cgcattttac caaccatatt cttttttaac tctacaaatg 60
gtgcagataa tccgaacact tatagttcat ttattgtttc caccctccca ctctgcacat 120
gactgttatc tcgag 135
```

<210> 625

<211> 140

<212> DNA

<213> Homo sapiens

<400> 625

```
gaattcgcgg ccgcgtcgac ataaaaacag cattgtagta cattactaca gctttgtggt 60
atattttgaa gtctggtagt gtgatgcctc cagctttgtt ctttttgctt aggatcgctt 120
```

gtctcttcag ggtcctcgag

140

&lt;210&gt; 626

&lt;211&gt; 249

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 626

```

gaattcgcg cgcgctcgac cctttattca gacctcact gctttgtacc tggactactg 60
taacacctcc ctgtctgatt gaatctagtt catctgttac actgaggtga gattaaattt 120
gctaaacaca gtaattttgt accactcttt agccccaat tacgtagtgc tcatagctgc 180
taaaataaga acaaactctt tagcttttcc aggtcttcca taataatgcc caaacatacc 240
catctcgag

```

249

&lt;210&gt; 627

&lt;211&gt; 197

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 627

```

gaattcgcg cgcgctcgac ttctaaacat ttgctgttga agtgttttaa tattttagt 60
tcacaacatt gatcaagttg gaatctttta ttatcttgaa cagttttatc aaaagtatat 120
ttttcgtatt ttcatattgct agcttttccc tgttattttt tgtgagactg aatactctta 180
aaaaggccga gctcgag

```

197

&lt;210&gt; 628

&lt;211&gt; 178

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 628

```

gaattcgcg cgcgctcgac gaagaatact gtgtattatc aaaatggtaa cattgtgttt 60
ccttctgaaa cttgtttctt ttcattcagc attactgttg acatctatcc ttactgatac 120
tttcaagttt gtttcttttg cttatggtat tctactaatt aatccaccac atctcgag 178

```

&lt;210&gt; 629

&lt;211&gt; 273

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 629

```

gaattcgcg cgcgctcgac aacactcctt atgacaagct gccacaaggc aagggcataca 60
gatctcttta gtcaaggcaa gtttctcagc ctgtatactg attatgtttt gggctggata 120
attatttgtt gttggggctg tcctgtgtat tgcagcgtcc tgggcctttg cccactagat 180
gccaatagca tccctttccc caatgtggca accagaaatt accaaatggt acctgagagc 240
aaatcctctt ttactttccc catccctccc gag

```

273

&lt;210&gt; 630

&lt;211&gt; 216

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 630

```

gaattcgcg cgcgctcgac gtattatcaa atcattttgt gaaatcacct cattttaaga 60
tttttaaatc taatgagtgt gagtaaaata cataactaatg ttgctgtgaa tttagtatgt 120
ctttctttt tctttaagtt tgtgccattg gattattctg ttccatataga aatccccact 180
ataaaatgta aaccagacaa acttccattt ctcgag

```

216

&lt;210&gt; 631

&lt;211&gt; 168

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 631

```

gaattcgcg cgcgctcgac gttctataaa gataaatccc ttctcctgcc attttatttt 60
attatatttg catagggttt ttttaattca atgttttata atccattgca gttctttttg 120
atgctcccat tgtcacagat ttggctggtg gtagtctccc cactcgag 168

```

&lt;210&gt; 632

&lt;211&gt; 193

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 632

```

gaattcgcg cgcgctcgac cagtttgatt tttagctcaa attgttggtt aaaataaatt 60
atgaatttga acgtattcag ctatgggttt cctttttatc tgctctaaaa gtgccttagc 120
tacaatagtt tttctctgtt tactcttcac tgaattttt ttttatgaag gaaaatcgct 180
ggagggaactc gag 193

```

&lt;210&gt; 633

&lt;211&gt; 211

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 633

```

gaattcgcg cgcgctcgac gaaatataaa aactatgatg ctgcttcttt cttttttttt 60
cttgagacac agtctcactc ttttgcgag gctgtactgc agtgggtggga tctgcactca 120
ctgcaacctc tgctcccgga gttcaagtga ttctctccc tcagcctccc tagtagctgg 180
aattacaggc atgtgccacc acgacctcga g 211

```

&lt;210&gt; 634

&lt;211&gt; 253

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 634

```

gaattcgcg cgcgctcgac atcatttttt cttcatgctt agtactgcta ccttagtttt 60
gttctctatg atttcttgcc tgtgttatta taatagatcc ctaagtggc tctttgtcta 120
cattctcacc cctccattt tatccattg tgctttccag aaggaaactt ctaattgtag 180
atctgattgt gcctctcttg gggcacacat cgtatcactg ccaggacagg accaagtacc 240
aagcaacctc gag 253

```

&lt;210&gt; 635

&lt;211&gt; 312

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 635

```

gaattcgcg cgcgctcgac cctgggtctgt cccaacatga aggcaataat ttgttacctc 60
attaatagat ctgtcctttt tcttttcaaa cagttcctta tgttaccat gaaatctagc 120
tggggctgtg tggtttctga ttccccctgg ctattctttt acttttccta cttttccagg 180
ctcagcaggg agctgctgga tgagaaagag cctgaagtct tgcaggactc actggataga 240
ttttattcaa ctctttttga gtacctggaa ctgcctgact tatgccagcc ctacagaagt 300
gacgaactcg ag 312

```

&lt;210&gt; 636

&lt;211&gt; 168

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 636  
 gaattcgcg cgcgctcgac agccagagca atagtaagt ttatagacca tctttctcat 60  
 aaatgccact gctcactatt gtacatatgt ctttttcaag ttttttga agacctccct 120  
 cctctgtac catatttccc taatgtctgt gaaactaagt acctcgag 168

<210> 637  
 <211> 262  
 <212> DNA  
 <213> Homo sapiens

<400> 637  
 gaattcgcg cgcgctcgac gcattgaatc cagggttttt gtttcacttt gttttttcaa 60  
 agaatacttc ttaagtgggt gtattttttt gttgtattac atcatgtggc aaatgatctc 120  
 tgtctgtgat gttatgattg atcagggttc aggtgttata agtttgatta ttccttgta 180  
 ccttgtcagc ttttaccag tgatttcagt ggccgttaat ggtcatggcc tagattcact 240  
 atttcaggaa ggcacgctcg ag 262

<210> 638  
 <211> 254  
 <212> DNA  
 <213> Homo sapiens

<400> 638  
 gaattcgcg cgcgctcgac cttttcacga ttcattgctg aaggctttat tctatgaaga 60  
 cctttgttgc tgaaggtatg aaggatgtgg tagtaatgga aagtatttta ctgatctttt 120  
 atttcctttt aaattttttg agacagagtc tcgctctgtc atccacgttg gagtgggta 180  
 gcgtgatctc agctcactgc aacccctgac tcctgggttt aagcacttct cctgcctcag 240  
 cctcccaact cgag 254

<210> 639  
 <211> 169  
 <212> DNA  
 <213> Homo sapiens

<400> 639  
 gaattcgcg cgcgctcgac ttttttcaa attactcata accagaagag ttctgttga 60  
 ttttaccata tggccagatt catcttgctt ttcaaactta tgtaagtaat ttttccaaat 120  
 ctcttttttt ccataacat acatgtgtgt gagtccactc ctctcgag 169

<210> 640  
 <211> 159  
 <212> DNA  
 <213> Homo sapiens

<400> 640  
 gaattcgcg cgcgctcgac cctaaaccgt caattgaatt ctagcaagga atttgtgggc 60  
 aaacctacta ttttagacac tattaataag actgaattgg cctgtaataa cacagttatt 120  
 ggttcccaa tgtagttaca gctgggaaga gtcctcgag 159

<210> 641  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<400> 641  
 gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt ctaggcgtga gccaccacac 60  
 ccagcctgct atagcttttt ctttgcctgag atttgttttt ccatttgcct tactagatta 120  
 cttgaagcgc ttttataatg actgctgtag cttccttgtt gaagaattcc agcgtctgtg 180  
 tcatcttgggt gttggcatct acctattatc ttttctcctt caaactcgag 230

&lt;210&gt; 642

&lt;211&gt; 253

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 642

```

gaattcgcgg ccgcgctcgac gcttttaaga actttcaa attttctcca gctgtatatt 60
ggttgctctt agggaagagt ttgttctgaa ttgctctcgt ctgttttcca gaagtgaata 120
tttgaaacga ctgacctttt agtttttagtt actgtatttt taaatatttt atttgcttcc 180
ttttagaagc tacatgctca atttttgtag ttctctatac ctcataaata tttttgagct 240
cagccagctc gag 253

```

&lt;210&gt; 643

&lt;211&gt; 245

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 643

```

gaattcgcgg ccgcgctcgac ccccgcacac ctccaagtca ccaggtcca cctgcattgc 60
agcagactgc ccagccaca cccagctctt ctccctcttc tgtacgcatg acgctccttt 120
ctgctcttga gcatttgcatt gtgtgttctt ctctacttgg aatactcttc cctctttttt 180
tttttatttt tgagacagag tctcactctg ttgccagggc gattctcttc tctcagcctc 240
tcgag 245

```

&lt;210&gt; 644

&lt;211&gt; 197

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 644

```

gaattcgcgg ccgcgctcgac cggatttcaa ggaattttta gactttgtgg attttttctt 60
cactataatt gtatgtttgg ctccctaatt atttaaatta catacataga tatttttggt 120
actttgagaa tagtctatct gaaatttgaa gttctttaga gcttaatata ttaaataatgc 180
taacactcat cctcgag 197

```

&lt;210&gt; 645

&lt;211&gt; 258

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 645

```

gaattcgcgg ccgcgctcgac gggaattact atctacctct tagtggtata ttggaatga 60
atgaaataac acatggagag aatttagtac aatacctggc acatcatata catgttttaa 120
gtagtcttta tgcttgatt gaagttatta atgatgaact tggagattgg cagggaata 180
agaaagaggg ttggcagaga tggtgagaag gttgaattga caggcagtgg ctgtctggat 240
gttagggcaa ggctcgag 258

```

&lt;210&gt; 646

&lt;211&gt; 174

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 646

```

gaattcgcgg ccgcgctcgac gcaattcttc gctgaagtca tcatgagctt tttccaactc 60
ctgatgaaaa ggaaggaact cattcccttg gtggtgttca tgactgtggc ggcggttga 120
gcctcatctt tcgctgtgta ttctcttttg aaaaccgatg tgatccttct cgag 174

```

&lt;210&gt; 647

&lt;211&gt; 201

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (92)

<400> 647

```
gaattcgcgg ccgcgtcgac gtaaaaagat tctaacagga aggaggaggg tgtaataaaa 60
tagaaatggc atctctagaa ataatgttca tntttaagat tgattatagg gaggaaaatg 120
aaacacaatg agcctttcaa aaaataagtc atgagacttt gggcaaaaaa caaacaataa 180
aatatgaggt caactctcga g                                     201
```

<210> 648

<211> 198

<212> DNA

<213> Homo sapiens

<400> 648

```
gaattcgcgg ccgcgtcgat ttttgccatg aatgggaaaa gcttttttct tcttttttct 60
tttttcgtgt ttttttcttt tgtttcaaat tcttctcttg gctcattgct cttaatgctt 120
tgtctcccta aaagaggtag ctatgtaaaa acggaagtat ctggccctac gcagtggaaa 180
aagggactaa cactcgag                                     198
```

<210> 649

<211> 216

<212> DNA

<213> Homo sapiens

<400> 649

```
gaattcgcgg ccgcgtcgac gcaatttgaa tataatatgt ctagggttag ctttcttctt 60
tttttttagca tttattctgc ttgggtatttt cttagcttct cgaatttgtg gttgggtatcc 120
gacattgatt tagaggaaat tcacagtcac tattgtttta aatatttctt tctgttcctt 180
cttctcctgg ttttcctggt acatgtacac ctcgag                                     216
```

<210> 650

<211> 157

<212> DNA

<213> Homo sapiens

<400> 650

```
gaattcgcgg ccgcgtcgac cctaatacaga aggcattgtt ttagtatttc ttgggagtg 60
cagctgtata atgcagcagc tgttcaatcc cttacccttc tctgcaagga cttccttaca 120
gcttggtgca gttctttccc agaggccacc actcgag                                     157
```

<210> 651

<211> 158

<212> DNA

<213> Homo sapiens

<400> 651

```
gaattcgcgg ccgcgtcgac aatcatttca gatttccagg aaagttgcaa aaatatcata 60
aagaaatata tacccttcac tcagattccc aaatgttagc acttcgccac atctgcctca 120
ttcttcttct tctctcttca cacacacaca cactcgag                                     158
```

<210> 652

<211> 227

<212> DNA

<213> Homo sapiens

<400> 652

```

gaattcgcgg ccgcgtcgac agcccatgaa agattccaga acagagtttt gtaggtaaag 60
ttaagtgtat tacctggaaa gtctgttcca tgttgataa cccaagtcct gaagaaggaa 120
agtttgctgtt tcaaggtatt ttccttctct gtctctttct ttctctctgt gatgcacaca 180
aacacacaca tatacacata caatctctga attcactcaa actcgag 227

```

&lt;210&gt; 653

&lt;211&gt; 265

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 653

```

gaattcgcgg ccgcgtcgac ctttcccatc cctagattcc tttgtgctgc ttgtctacat 60
tgtatgataa acatcacatt aaatgcaatc tctccctccc caccctctct ttttttttga 120
gataggatct cgcttgctgt gttgccagg ctgcagcgca gtggtgtgga tcgtggctca 180
ctgcagcctc accgtctggg ctcaagtgat ccctcccag agcctccact tcccagtacc 240
cgggactata gacacgtacc tcgag 265

```

&lt;210&gt; 654

&lt;211&gt; 240

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 654

```

gaattcgcgg ccgcgtcgac gtgaggttga gggctcttcc atatattcac gggctgttta 60
tggtttatttc ctgtgagcta gctcttgata tctagtccc tgattcttcc ccaagaaaaa 120
ttccataaat attttcacag gattgtgtta aattcctaga ttaatttga aagaactgat 180
tttatgttgc atctttttat ccaagaactt gttatgttcc tccatttgtt caacctcgag 240

```

&lt;210&gt; 655

&lt;211&gt; 190

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 655

```

gaattcgcgg ccgcgtcgac gtgagacctt gtctcaaaaa cagaacaaaa agcaaaacaa 60
ctgtattagg ggccagatgt ggtggctcat gcttgtaatc tcagtgtctt gggaggctga 120
gatgggagga ttgcttgaag ccaggagtcc aagaccagcc tggggaacaa ccaaaccctg 180
tctccctata 190

```

&lt;210&gt; 656

&lt;211&gt; 164

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 656

```

gaattcgcgg ccgcgtcgac tgatttttta aatatatgtc ctttattaaa aatatatgaa 60
gtgcaatgaa agacaaaacc tgtgcattcc tcattgtagc acctattttt aaggcttccc 120
tatctgagtc agctcagtct ttgatgtggg cggaaagtct cgag 164

```

&lt;210&gt; 657

&lt;211&gt; 172

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 657

```

gaattcgcgg ccgcgtcgac caacagggaa acaggagtgt catcaaaagt aaattccagc 60
cgagacattc tctectatat gagaagcaaa agtgaaagga aaaatttttg aaaagtaaaa 120
cactgaagag tcatagtatt ctctgtaac ttggaactgg agtgggtctcg ag 172

```

&lt;210&gt; 658

<211> 165  
<212> DNA  
<213> Homo sapiens

<400> 658  
gaattcgcgg ccgcgtcgac aaataaagta gggatgccat ctgctatatt caaatgtcct 60  
tgcagattgt tttttctaata cttatgggtca tattctgata ttcttaaatt agatagtgat 120  
tgctatgtta acacagagca gatagtattt gcacaatgcc tcgag 165

<210> 659  
<211> 272  
<212> DNA  
<213> Homo sapiens

<400> 659  
gaattcgcgg ccgcgtcgac cacacacaca tacacacata tatatatata actttataaa 60  
gtatcatgta atatttttta taatttatct ttaattccaa taactagggtt acatagattc 120  
taaagtcttg aatcctatag gcaagtgggtt caattatttt atccatgtcg tctagatacc 180  
tccttatttc taaatattat ttcttaattt ttccaatatt agatgttggtt attgattgtc 240  
tcacagatgc catccctaata gacgtactcg ag 272

<210> 660  
<211> 253  
<212> DNA  
<213> Homo sapiens

<400> 660  
gaattcgcgg ccgcgtcgac taggtttagt tgtcttaaca aaaaccagtc gaggaaaagt 60  
tttttagtta gcagaataact aaataaaaat attaattcag gctcagatat cttttgtttt 120  
gatccctttg aaagtcagaa ctgggtttgt ttaggagtat tttatgtatt tgatttttat 180  
tcttaactat tcccttatga tggtagctgt tctttcagca aacagttatt ttgtgcctat 240  
tgcggtgcctc gag 253

<210> 661  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 661  
gaattcgcgg ccgcgtcgac cgattgattt cgctagtact ttccaaaaat actaaacaat 60  
aagatagtag tggagctttg tcctattcct tacttcaatc agatattttt aatgctttcc 120  
tattaagatt agatctggct ttagattgaa gcgtacatat tttatcatgt taaagtattc 180  
agctgttact gtttttttaa agtttttgtt ttgttttgtt tttgtttttt gttttttttt 240  
gaggcagagt ctcactctgt tgcctaggct ggagcgactc gag 283

<210> 662  
<211> 120  
<212> DNA  
<213> Homo sapiens

<400> 662  
gaattcgcgg ccgcgtcgac ttgaattcta gacctgcctc tcacctggac cactggagga 60  
accttctgat tggcccccat gctttcactc ttgtcccacc tatttctcca cgcactcgag 120

<210> 663  
<211> 244  
<212> DNA  
<213> Homo sapiens

<400> 663

```

gaattcgcg cgcgctcgac aactgcaatt acttctgtac caacctaaata gtttgcttag 60
tgtttttatc atgaaaaggt attagatttt taaaatgttt tttctgtctg ttgagggttat 120
cgtgttatct tgctttgttg tattattgtg gtgtataatt ttttttgaga cgggggtctg 180
ctctgtcgcc caggctggag tgcagtggcg cgatctctgc tcaactgcaag ctccacatct 240
cgag 244

```

&lt;210&gt; 664

&lt;211&gt; 193

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 664

```

gaattcgcg cgcgctcgac taaactcctg agctcaagtg atcctttctac ctggggctcc 60
caaagtactg gtattacaga cgtgagccat ggcgcccagc ctgtctctgt gttttaacct 120
tcatttagta ttagtctctac aaatgattac ttatttaatg ctcaatacta gtctctgtgt 180
cagtatcctc gag 193

```

&lt;210&gt; 665

&lt;211&gt; 329

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 665

```

gaattcgcg cgcgctcgac cctcctcttc tgtcaccagt gccctcgccc cctccgatgt 60
catcacctca cccgggttcc ttaccgtctt catttgacac tgaaacctac tttggagaat 120
atacagattc cagcgataat gactcagtc agcttagaaa ttctgctgag tctgtttcag 180
aagatgatac aactgaatca cagaattatt ttggctcatt gagaaaaaat aaaggaagtg 240
gcacatggga ggaaaagccc aaatcacatg aagctatcca agctctgaat acatgggaag 300
taaataaagt gacaacttct ggactcgag 329

```

&lt;210&gt; 666

&lt;211&gt; 189

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 666

```

gaattcgcg cgcgctcgac tgcattggatg tgtatgtgtt tgtccccagc caaaatgacc 60
tttctcgtgt ccattattct gttatgtgtc cattactgtc ccacctccat gcttttcccc 120
agggtgttcc ttaaccctgg aatgtctcat tccccctctt tatctctgag tgtaaaccac 180
aaactcgag 189

```

&lt;210&gt; 667

&lt;211&gt; 218

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 667

```

gaattcgcg cgcgctcgac tatacatcca gaaaagtaca tagttcagtg ctttttctac 60
taagtgaatg catctgtctt taaaaagtga ccaccccat aacagaaaat agaattgtac 120
cagcattcca aagaccctct ctctgttacc tctccctcct tctccaagcc acactccttt 180
ctgacttctg tcaactataga tcaattggcc aactcgag 218

```

&lt;210&gt; 668

&lt;211&gt; 129

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 668

```

gaattcgcg cgcgctcgac cctcatctgg cgcattttta ttgcaagatc acaaatggca 60
agaaatatct ggtactttgt ggtagtctg tgttacaagt ttttgtcata cttccgagca 120

```

acactcgag

129

&lt;210&gt; 669

&lt;211&gt; 251

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 669

```

gaattcgagg ccgcgtcgac cagtctgggtg gtgggtgagg agtctgaggc cgttcccgag 60
gcctctctct cctcccggtt cccttcaccc ccaccccgca cccctttccc catcccggt 120
ccgtcacctt cccgtccccc acactcagga caagaatgcc ctgccgggaa caaccagca 180
gcgcctagat ggctttggtc acggtccagc ggtcacctac cccagcacc acctccagcc 240
cgcaactcga g                                     251

```

&lt;210&gt; 670

&lt;211&gt; 175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 670

```

gaattcgagg ccgcgtcgac ccctatgcca aaatctccct atcattaaaa tacaacaccc 60
caaccctagc aaaaccattc ctgataccac gtgttgctat taccactat ctctctcca 120
gtcctatcaa aacttgggtt tgctgtttct gatgtatta ttgtctctgc tcgag      175

```

&lt;210&gt; 671

&lt;211&gt; 211

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 671

```

gaattcgagg ccgcgtcgac cttgcctggc aggagtggct tctaagaaga gctgttgatt 60
gttgaacttt gacgctaagg tgaggggttg gattttttgg ggatagcttt attttggtat 120
aatttttagaa aagtttgaga atagtacacg agttcctatt tacccttcac ctagagtcac 180
gatgatttgc gttttgcccc atttactcga g                                     211

```

&lt;210&gt; 672

&lt;211&gt; 296

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 672

```

gaattcgagg ccgcgtcgac caccagacca gttctgtgcc tccatctggt ttctgacttg 60
tgcgatcggt tggcagcccc atcagctgct acctcctctt tgtctctttg cccgtgtggt 120
tatgtctatt aaagtacctc tattttaatg gagttttggg acctatcaaa tataaatata 180
ccatttcttc aagaccattt ttcttttcta accagtaaat ttatatggca tttatttttt 240
cttacagaag cttccttttt ttctctcttt tcttttcttt ttggagggt ctcgag      296

```

&lt;210&gt; 673

&lt;211&gt; 176

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 673

```

gaattcgagg ccgcgtcgac gagatgaatc caggctataa catttaacaa gaccttatta 60
aaagcttcaa gatgttagcc tttatctggt ccatactag cttacttggg tgtttttggg 120
ggatcacatg tctgtctccc aaactggaaa cgtctaactc tccaggagta ctcgag      176

```

&lt;210&gt; 674

&lt;211&gt; 137

&lt;212&gt; DNA

<213> Homo sapiens

<400> 674

gaattcgcgg ccgcgtcgac cccatctatg aagaactgaa agaccgcagc cgtagaagaa 60  
tgatgaatgt gtccaagatt tcattttttg ctatgtttct catgtatctg cttgccgccc 120  
ccatcctctg cctcgag 137

<210> 675

<211> 202

<212> DNA

<213> Homo sapiens

<400> 675

gaattcgcgg ccgcgtcgac agcattttta gctttgtaca ttcaaagtca tgcatatctc 60  
tgagagggtcc tttaatgtga agattttttg cttgcatcac ttccctctgga acatcttcat 120  
cttctgtttg ctaatttcta ctttttagtta tttatttttt aaattaaatg tcatatgggc 180  
ttattattgg gatagcctcg ag 202

<210> 676

<211> 227

<212> DNA

<213> Homo sapiens

<400> 676

gaattcgcgg ccgcgtcgac aaaagaagtt aactagagtg ccatcaaagt cactggactt 60  
gaataaaaaa gaatatcttt ctctggacaa aagcagcact tcagattctg ttgatgaaga 120  
aaatgttcc tgaagaagatc ttcattggaag actttttatc aaccgtattt tcatatcag 180  
tgctgacaga atgtttgaat tgccttttac cagtccacgc tctcgag 227

<210> 677

<211> 556

<212> DNA

<213> Homo sapiens

<400> 677

gaattcgcgg ccgcgtcgac agttggaaaag cttgcagcat ctggatcaat tacaatgcaa 60  
gaacattgga gctatgtcaa gctacctctt catagtgaat tatgagttgc ctttggtgat 120  
ccaggcatta acgaacattg aagataaaac tggattgttg tatctgaacg ggaactattt 180  
ggttctgttg gtgtcatttg tggtcattct tcctttgtcg ctgttttagaa atttaggata 240  
tttgggatat accagtggcc ttcccttggt gtgtatggtg ttctttctga ttgtggcat 300  
ttgcaagaaa ttccaggttc cgtgtcctgt ggaagctgct ttgataatta acgaaacaat 360  
aaacaccacc ttaacacagc caacagctct tgtacctgct ttgtcacata acgtgactga 420  
aaatgactct tgcagacctc actattttat ttccaactca cagactgtct atgctgtgcc 480  
aattctgac ttttcatttg tctgtcatcc tctgtttctt cccatctatg aagaactgaa 540  
aaaccgcagc ctcgag 556

<210> 678

<211> 196

<212> DNA

<213> Homo sapiens

<400> 678

gaattcgcgg ccgcgtcgac atttgtttta ttcagatata gtttacatgc agtaaaattt 60  
attctttttt aggtttgcag tttgatgagt ctgacaatgt atagtcatat aaccaacact 120  
acagttgaga tatagaatat taccacagaa agttccctgt accttttagt gattctcttc 180  
tccccacgt ctcgag 196

<210> 679

<211> 226

<212> DNA

<213> Homo sapiens

<400> 679

```
gaattcgcg cgcgctcgac tgcttttagta ataaattgcc taccagtttt gtaaagcttg 60
gtatatctta tttttctttt gacttttgc aaacacagaa gtaatataag tccctcgtat 120
ccaactagca gtcctcagc tatcaattcg tggcccatct catttcacct gctcttattt 180
tttagttttt cattttgtaa tgcttgatc caacacagtg ctcgag 226
```

<210> 680

<211> 113

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (104)

<400> 680

```
gaattcgcg cgcgctcgac actaagggtg gagtcactgt gcccgccctg atgatttttt 60
tatcatatct gtgtttctgc agagtttttag tggctaaaga aagnacactc gag 113
```

<210> 681

<211> 196

<212> DNA

<213> Homo sapiens

<400> 681

```
gaattcgcg cgcgctcgac taagaatggt atgttatcaa aataccttta atagtcacct 60
tatagcactc tgctatttgt catccagttt tatgcatcaa acacaatata ccttttgggt 120
attcctaact gtcgaatggc aaacacacgt tccagaatat agtcatggga ttacaacat 180
aatgacctgc ctcgag 196
```

<210> 682

<211> 226

<212> DNA

<213> Homo sapiens

<400> 682

```
gaattcgcg cgcgctcgac tgagaatggt ggtagtggtc agaagagtca aaaaatggca 60
gttaattatt cagttatttg ctacttggtt tttagcgagc ctcatgtttt ttgggaacc 120
aatcgataat cacattgtga gccatatgaa gtcataattct tacagatacc tcataaatag 180
ctatgacttt gtgaatgata ccctgtctct taagcacaca ctcgag 226
```

<210> 683

<211> 196

<212> DNA

<213> Homo sapiens

<400> 683

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attacatacc ttaataatta caactcaatt gaggggtcca tatatattct ttctcatttt 120
ctggcagtaa atcatattca tcatatactt cccaattttg cacacacaaa aaatgaaaat 180
agccccctat ctcgag 196
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<210> 684

<211> 193

<212> DNA

<213> Homo sapiens

<400> 684

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gaattcgcg cgcgctcgac aactttattc caaaagtagt gcatgtggag aaagaatcta 60
gactttcttg tatacatctt tctctctctc agtaataaac aattaccttt catttatact 120
ttgataacct gtatttaatt taaaaaaaaa cataaaaatg aggaaccaag tgaaactacg 180
gatattcctc gag 193

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<210> 685

<211> 258

<212> DNA

<213> Homo sapiens

<400> 685

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gaattcgcg cgcgctcgac acttctgact ctgtcagtat tccctatccc tgctcctgat 60
ttcttctttt tcatagccgt cgccttaaca cacattctac atttgactta ttttcttttt 120
taatcatcta cgtccctcca ctaggctgta aactacagga tgacaaagggt tttgtctgtt 180
tttttcattg ctggctgttc aatatctaatt ctagtgcctg gcatgtcatg gacaattaat 240
aaatgtgaac acctcgag 258

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<210> 686

<211> 197

<212> DNA

<213> Homo sapiens

<400> 686

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gaattcgcg cgcgctcgac gtattaatag tattcctaatt gtgtgctgca gaaatggcta 60
tgagcctctt aaatttacat ttgcaactta aaggtagttt tagaagggaag tacaattgg 120
ctttcatctt gcaaacaatc gttttttact tcattatctt aatttgcttt gtcactcata 180
aaaaggaaac actcgag 197

```

<210> 687

<211> 304

<212> DNA

<213> Homo sapiens

<400> 687

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gaattcgcg cgcgctcgac agaagtaaag atcctgaata acttctcaag gttatagtca 60
cacagctagt aagaagcaaa gtggcattgt taatacctcc caccattaaa aaaaaaaaag 120
gtggttatag caaagtatac actagaataa tttgagttgt ttgagatgga tacagggtatc 180
tcttttttta aattagtagg tacaacaaaa gaacttgaaa accacatcct tttagattct 240
ttgttgtttc taggagtgtg tttcaagggt gttagtaatt tgtgtttccc tgggccatct 300
cgag 304

```

<210> 688

<211> 156

<212> DNA

<213> Homo sapiens

<400> 688

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gaattcgcg cgcgctcgac gttaaaccct ggctaatttt attgtctttt tgtagagatg 60
ggatttcacc atcttgccct ggctgttctt gaactcctgg gctcaagctg tcttcccgcc 120
tcaagcctcc cgaagtgtct ggattgcaga ctcgag 156

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<210> 689

<211> 329

<212> DNA

<213> Homo sapiens

<400> 689

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gaattcgcg cgcgctcgac atgggacaga gtccaagcat gatgggtggc atgccccatgc 60
ccaatgggtt tatgggaaat gcacaaactg gtgtgatgcc acttcctcag aacgttggtg 120
gcccccaagg aggaatgggt ggacaaaagg gtgcacccca gagtaagttt ggctgcccgc 180

```

aagctcagca gccccagtgg agcctctcac agatgaatca gcagatggct ggcagtagta 240  
 tcagtagtgc aaccctact gcagggtttg gccagccctc cagcacaaca gcaggatggg 300  
 ctggaagctc atcaggtcat tctctcgag 329

<210> 690

<211> 191

<212> DNA

<213> Homo sapiens

<400> 690

gaattcgcg cgcgctcgac gttaaacttt acatttttaa ttaatttatg ttgtatgta 60  
 ttattttgtt gagaaggggt ctctctctgt caccctact agaatgcagt ggcgccatca 120  
 tggcttactg ctctctgggc tcaagctgtt ctcccatctc agcctcccca tgcaccacc 180  
 tcatgctcga g 191

<210> 691

<211> 173

<212> DNA

<213> Homo sapiens

<400> 691

gaattcgcg cgcgctcgac atactgtata atttgggtga ggtctacaaa attgggtgtg 60  
 actttctctt gcaaatggat ttctctctgg gaattttctt ggctgttctg gaaatgcttt 120  
 cccacagctg ggtaactgtt ctaaattggct ttgataatgc tcacaccctc gag 173

<210> 692

<211> 349

<212> DNA

<213> Homo sapiens

<400> 692

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 atttctaacy aataccagat ttcttaaaat agtcaagtat tttcttttg tgtatgatga 120  
 gatattaact tgggtgttatt tcattttttt tttttaagga gtcattctac cctgttctat 180  
 ctttacttat gtgaaaatgt ttaaaactatg agtttttttc atgtgccttc ttttggagta 240  
 atgtcaactt ttaaatatcac atgttttaaat aacttagagt gtaataaatt gtgtttaata 300  
 tatactgtag ataattgatg ttaaatgctt tgtaaacaca tgtctcgag 349

<210> 693

<211> 272

<212> DNA

<213> Homo sapiens

<400> 693

gaattcgcg cgcgctcgac cctgcctcta agataaaaagc tcaacttctt aacagtgtac 60  
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 aaccacaccc ttgcaaagct ttgtactccg caccacagat gatctccagg cagctcagat 180  
 ctctttctg cctttgccct gcactgttcc ccggtacttc ctcttttatt gtagcactca 240  
 gctccccagc caatctgtcc atcgtcctcg ag 272

<210> 694

<211> 212

<212> DNA

<213> Homo sapiens

<400> 694

gaattcgcg cgcgctcgac cagagaacag gcaaaaaatt actgaagact ttaacagcat 60  
 ctgaaatgct acctttattg gatcattgga atactcaaac taaaaaagta tcaactcagag 120  
 aaataatgct agaagaaatt gccttacagg aaaaacataa ttgaaaagg gagaccctta 180  
 tgtttgaaaa agattgtgcc actcaactcg ag 212

&lt;210&gt; 695

&lt;211&gt; 226

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 695

```

gaattcgcgg ccgcgtcgac catatcttctg ttgtccattc atcaggtaat ggatatttgg 60
attgttgcgg gtactgttat tgctactcct attttatttt agaaatacga aaagtgaatc 120
tcagggaagt aagttcacca aggtcagaca aatagcaaag ctgagacgca cacaaactta 180
agtgtgtctg atgctatatt tctttctctt aaccactgcc ctcgag 226

```

&lt;210&gt; 696

&lt;211&gt; 194

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 696

```

gaattcgcgg ccgcgtcgac tgaagagatt atattcctct acatcaggtc ccaaagatgc 60
agttctgttg gcaactggga agttggaaac tgaatatggt gaaaatgac ccgtcactat 120
tcctaggagc gtggctgtct cctcagcact cacgagtgtg tgggtgtagta gggggcgagg 180
gtatggaact cgag 194

```

&lt;210&gt; 697

&lt;211&gt; 196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 697

```

gaattcgcgg ccgcgtcgac tctctaccaa gccctttgtc ttgtgaattc tcttcctctg 60
ctgattctgc atggtcttct atcctattca gtatcaagtt ctgatttttt gtttattttg 120
ttttcatttc atttctaagt attgctcaat gatcccgctc tctgtgatat ggtttggctg 180
tgccctact ctcgag 196

```

&lt;210&gt; 698

&lt;211&gt; 212

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 698

```

gaattcgcgg ccgcgtcgac cttaattcct actacaaagc taaataatat ataaaataaa 60
tagaaaaaat cagtgtctca agttatcctt taatgtgggg aataaaatgt ctgaaagtca 120
tttatgaact aattttagaa tgctctacta ctggaaatat ttattctttc aacactacat 180
ttgttgtttt agatgcttgc caacaactcg ag 212

```

&lt;210&gt; 699

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 699

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gaattcgcgg ccgcgtcgac ctaagtactt tttctttttg aagccattgt aagtgttaatt 60
attttcgttt cattttcaga ctgttcattt ctagtgtatg caactaattt ttgtgtattg 120
atgttatctc ccacaacttt gaacttgctt attagctcta acagttattt tgtagattct 180
tcagggtttt cttctacaca taggattatg ttacctgttt tttgtttttt tgtttttgtt 240
tttgttgctt tgttttttga gacagggtct cactctgtca cccaggaccg gaagctcgag 300

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&lt;210&gt; 700

&lt;211&gt; 124

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 700  
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 cgag 124

<210> 701  
 <211> 214  
 <212> DNA  
 <213> Homo sapiens

<400> 701  
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 ttttaaccttt tctcatataa gcaagggatt tgattacaca aaattttttg acagtggata 120  
 gctagactgt acttatcaat ttgttcacta ctgttctatg gctatctctg gaagaccctt 180  
 taggtacaat aaggaagatg ggagagtact cgag 214

<210> 702  
 <211> 286  
 <212> DNA  
 <213> Homo sapiens

<400> 702  
 gaattcgcgg ccgcgtcgac ggtagcctct cacaactccg cccttgccct ctgccttcca 60  
 cttccttcca tctcatttct aaaccccaaa cagctcatct ctaaaaagat agaactccca 120  
 gcaggtggct tctgtgttct tctgacaaat gattcctgct tctccagact ttagcagcct 180  
 cctgttccca ttcttggta cagctctagc cacagcagaa ggaaaggggc ttccagaaga 240  
 atatagcacc gcattgggaa acagcagcct ctaccctccc ctgcag 286

<210> 703  
 <211> 158  
 <212> DNA  
 <213> Homo sapiens

<400> 703  
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 aggaggccag aaagtgtttt tcaaacctaa gcggtatagc cgagaccatg tgggtggaagg 120  
 ggaaccgtat gctggttatg atagtcacaa tgctcgag 158

<210> 704  
 <211> 439  
 <212> DNA  
 <213> Homo sapiens

<400> 704  
 gaattcgcgg ccgcgtcgac acacaattct tttcttccgc ttggatatcc gcattgggcct 60  
 actttacatc acactctgca tagtggttct gatgacgtgc aaaccccccc tatatatggg 120  
 ccctgagtat atcaagtact tcaatgataa aaccattgat gaggaactag aacgggacaa 180  
 gagggctact tggattgtgg agttctttgc caattggtct aatgactgcc aatcatttgc 240  
 ccctatctat gctgacctct cccttaaata caactgtaca gggctaaatt ttgggaaggt 300  
 ggatgttggg cgtatactg atgttagtac gcggtacaaa gtgagcacat caccctcac 360  
 caagcaactc cctaccctga tctgttcca aggtggcaag gaggcaatgc ggcgccaca 420  
 gattgacaat aaactcgag 439

<210> 705  
 <211> 192  
 <212> DNA  
 <213> Homo sapiens

<400> 705  
 gaattcgcgg ccgcgtcgac aacacagcct agcaggaaac cctgagctgt ctgactctca 60

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agcctgtgtt gggaaatcct gccctgtgct gcctcttgtt gcagagatcc tatctggata 120
aagtgtctgg taaccaggaa tcagaacctc tggaggacga gtatgacttc tttctgttcc 180
ctgctgctcg ag                                     192

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<210> 706
<211> 205
<212> DNA
<213> Homo sapiens

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<400> 706
gaattcgcgg ccgcgtcgac cctcaaaacta caaaggaatg acaagagaag aaagggagca 60
gagagatcta gaacagatgc ctcaacgacg aagaatgaac agcactggtg gtcagacacc 120
cagaagagac ctggaaaagg tgctgacagg agaggagaag gctcttagac ctggagatcc 180
tggattctgt gcccgtagacc tcgag                                     205

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<210> 707
<211> 279
<212> DNA
<213> Homo sapiens

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<400> 707
gaattcgcgg ccgcgtcgac agaaaataag cgattacaga aggaacttag tatgtgtgaa 60
atggagcgag agaagaaagg aagaaaggtc acagagatgg aaggccaggc aaaagaattg 120
tcagcgaagt tggccctttc cattccagct gaaaaatttg aaaacatgaa gagctcatta 180
tcaaatgaag tgaatgagaa agcaaaaaaa ttagtagaaa tggaaagaga acatgaaaaa 240
tcacttagtg aaattagaca gttaaaaaga gaactcgag                                     279

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<210> 708
<211> 228
<212> DNA
<213> Homo sapiens

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<400> 708
gaattcgcgg ccgcgtcgac cctaaaccgt cgattgaatt ctgacctgc ctcgagcaac 60
ccgttcactc aacaagcaa tctgatccca gggttgaacc tcagcgact tggcatcttt 120
tcaacaggac tgtccgtgct atctccacca gcagggcccc gcggagctcc ccccgctgcc 180
ccctaccacc ctttactca acaagccaat ctgacccag ttctcgag                                     228

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```

<210> 709
<211> 189
<212> DNA
<213> Homo sapiens

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<400> 709
gaattcgcgg ccgcgtcgac agggattggg aagacaaaga caaaggacga gatgaccgca 60
gagaaaagcg agaagagatc cgagaagata ggaatccaag agatggacat gatgaaagaa 120
aatcaaaagaa cgcgtataga aatgaagggg gtcccagccc tagacagtcc ccgaagcgcc 180
caactcgag                                     189

```

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<210> 710
<211> 293
<212> DNA
<213> Homo sapiens

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<400> 710
gaattcgcgg ccgcgtcgac gataccttgt tacaggacag agatttctga accttaaagt 60
tgagaaataa ataaattgca caaaatagac agcctgtcat tttctagggt aacttgagca 120
agatgaatat tttcctcaga tcttctgctag tcttgggtgt tttctttaa actagctgta 180
tcttgtcgga ggtccctgaa agtgaattaa ctttggatct cttaggtatc tgtgtttgga 240
atagagttta ttccaaatct atcttattat ggagtgaatg cgggcacctc gag                                     293

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<210> 711  
<211> 143  
<212> DNA  
<213> Homo sapiens

<400> 711  
gaattcgcgg ccgcgtcgac ccaaaagttt gttctataat tattagagtt tgtttctctc 60  
tcattgtatca tctctttttg aaaggagtc tgtcttgctt agctctgtac aattttcttc 120  
tcattggtact ctgtgttctc gag 143

<210> 712  
<211> 195  
<212> DNA  
<213> Homo sapiens

<400> 712  
gaattcgcgg ccgagtcgac aagaaagggt ctcacaagcg ctcagcatct tggggcagta 60  
cagatcaact taaggagatt gcaaaattac gccagcagtt gcagagaagt aaacacagca 120  
gtcggcatca tcgagataaa gaaagacagt ctccatttca tggcaaccat gcagctatta 180  
accagtgtcc tcgag 195

<210> 713  
<211> 170  
<212> DNA  
<213> Homo sapiens

<400> 713  
gaattcgcgg ccgcgtcgac gaaaagacat taagttcaaa ttttaattta ttctcatatt 60  
aaatataact ccattaaaag tttaaaattt catgggagaa aatataataa ggtaaagagg 120  
tagaatcact ttcagactta agaataatgt tgatttccca aatgctcgag 170

<210> 714  
<211> 170  
<212> DNA  
<213> Homo sapiens

<400> 714  
gaattcgcgg ccgcgtcgac tggtgaaatt gtcctcctata ttactggttt tacatggaca 60  
cagaaactag gcactttaga ggtgcacttg catggcaggc tgggccccct tttctatatt 120  
ttattttcct ttttagtata gtggtactta aaatcactgg ttcactcgag 170

<210> 715  
<211> 200  
<212> DNA  
<213> Homo sapiens

<400> 715  
gaattcgcgg ccgcgtcgac aaaatacttt ggaaataata tacattttga cattctacca 60  
agaggacaac tttggttctg gaactgggtt ctatttgtca aatcagtttc cttttaacat 120  
aattaatccc ttttaacaaa agccgtctat gggattaaaa gacacgtgaa atgatacttt 180  
tattattccc attactcgag 200

<210> 716  
<211> 232  
<212> DNA  
<213> Homo sapiens

<400> 716  
gaattcgcgg ccgcgtcgac gtgaaagtgc catggaaagc cattcactcc tcaatcccaa 60  
cctgcagcaa ggtgaaggag tcctctccag ctccgaacc acgtggcagg agtttgtgga 120  
ggatctgggc ttctggagag tattgtctgt gatcttcgtc attgctttgc tgtctcttgg 180

cattgcttat tatgtgagtg ggggtgctacc cttcgtggaa aaccacctcg ag 232

<210> 717

<211> 332

<212> DNA

<213> Homo sapiens

<400> 717

gaattcgcg cgcgctcgac ccttaccata tgtttagcaac ctgtgcagaa gccctaccca 60  
gacctaaactg ggaactggct ctgtatatca tcctctcagg aataatgagt gcactgtttc 120  
ttttggtcat tggaacagcc tttttggaag ctcaaggaat atgggagcca tttcgaaggc 180  
ggctatcctt tgaggcctcg aaccgcctt tcgatgtggg aaggccattt gatctcagga 240  
gaatcgtttg ttttctatct gaaggaaact tgaacacact cagctgtgac cccggtcaca 300  
gtagggggtt ctgtggagca ggcttactcg ag 332

<210> 718

<211> 155

<212> DNA

<213> Homo sapiens

<400> 718

gaattcgcg cgcgctcgac gtgtgcttac acttctgtg ccagagtata caccaacaag 60  
tattccagaa gtccaacaag agaataaat caatcctcaa gacctaacag tgaatctagt 120  
tgctaattgta cctcaagatg gagaagatgc tcgag 155

<210> 719

<211> 188

<212> DNA

<213> Homo sapiens

<400> 719

gaattcgcg cgcgctcgac gctttccgat ctactccttt tatcgttctt agcagtccca 60  
cagagcaaga agggagacaa gataagccaa tggacacgct agtggtatct gaagaaggag 120  
gagagccttt tcagaagaaa cttcaaatg gtgaaccagt ggagttagaa aaccccccat 180  
cactcgag 188

<210> 720

<211> 176

<212> DNA

<213> Homo sapiens

<400> 720

gaattcgcg cgcgctcgac cctgcctega actcctgacc tcaagtgatc ctcccacctc 60  
agcctcccg agtgctggga ttaaagacgt gagccacggc acctggcctg aattttcttc 120  
aaattcaaaa aatcctgatg aaggtttggc taaaatcttt ggtgagctac ctcgag 176

<210> 721

<211> 226

<212> DNA

<213> Homo sapiens

<400> 721

gaattcgcg cgcgctcgac tttttgggta cgcttatata atttgagctc ttgactttga 60  
aaagggtttt cccttttggg tcttaattcc accgtgtata aatatggatg agtggatatg 120  
ggttagggct gaagttatct tcattaatat tcattcattag tgggtatctt tttcatttac 180  
tataaaacac attgcatcaa tgcactttta aaaaatctta ctcgag 226

<210> 722

<211> 222

<212> DNA

<213> Homo sapiens

<400> 722

gaattcgcgg ccgcgtcgac gttaatattg aagtacagtt ggcttcagaa ctagctattg 60  
ctgccattga aaaaaatggt ggtgttggtta ctacagcctt ctatgatcca agaagtctgg 120  
acattgtatg caaacctgtt ccattctttc ttcgtggaca acccattcca aaaagaatgc 180  
ttccaccaga agaactggta ccatattaca ctgggtactcg ag 222

<210> 723

<211> 184

<212> DNA

<213> Homo sapiens

<400> 723

gaattcgcgg ccgcgtcgac ttaagatctt gtggtcacaa ctgatgaaag gcgcccttga 60  
catctgtctg tgcctctggt tctttttgga gatagagtct gtctctgtca cccaggctgg 120  
aatgcagtgg cgcgatctcg gctcactgca acctccacct cccaggttca agcgatatct 180  
cgag 184

<210> 724

<211> 304

<212> DNA

<213> Homo sapiens

<400> 724

gaattcgcgg ccgcgtcgac cccaaaagga cccagacatg gcaatggaga tttgtgctac 60  
ggatgctgta gatgatatgg aagaaggctt taaagtecta atgaaggcag accctggtag 120  
acagggaatcc ttgcaagcag aggttatccc agatccaatg gagggagagc aaacctggcc 180  
cactgaggag gagctgagcg aggcaaagga tttcttgaag gaaagttcta aggtggtaaa 240  
gaagggtccc aaaggaacat ccagttacca agctgaatgg attttggatg gtggcagact 300  
cgag 304

<210> 725

<211> 234

<212> DNA

<213> Homo sapiens

<400> 725

gaattcgcgg ccgcgtcgac attgaattct agacctgccc taccattcac ccagctcaca 60  
gactgccaac aggaagtgtt gtttggttag tttctccca cttgtctacc cctcctttgt 120  
ccttagacca acatgtttac ctctctgctt tgccaactta gccagcaggc catccccggc 180  
cctaactgtt cctggccatt atctcttagt tatggcttcc acgtctctct cgag 234

<210> 726

<211> 160

<212> DNA

<213> Homo sapiens

<400> 726

gaattcgcgg ccgcgtcgac gaggggggtt gggttacatga gtatatatat ctttatcaaa 60  
actgaaagaa ttgtaccctt taagatttgc aggccaaagt cagtggctca tgcctgtgat 120  
cccagcactc tgggaggtcg aggtgggtgg atcgtctgag 160

<210> 727

<211> 335

<212> DNA

<213> Homo sapiens

<400> 727

gaattcggcc aaagaggcct agcattgctg agtggggacc ttttgggttg agcttatttt 60

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accttttttt ttttctttaa ttcttgggtgc tcctttatca cctttcttaa tcttttaatg 120
tgtctgtttg caatatgggg gttagacttt ttttatcatt accttttctt ttccttggct 180
gtacatttac ctttttcaca aatactgtaa gctgtcctgc tccttgaggg actacagggc 240
ctgggcaggg cccccagca acaattcacc cacagtgcac ctgcacatgc ctttcctaca 300
tgcttgctct gtctcgaact agtcacaatc tcgag 335

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&lt;210&gt; 728

&lt;211&gt; 425

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 728

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gaattcggcc aaagaggcct acaacccccg ggacaaccag ctctatgtat ggaacaacta 60
ctttgttttg cgctatagcc tggagtgttg acccccagat cccagtgtg gccagccac 120
ttccccgcct ctctagacca ccaccacagc ccggcccaca cccctcacca gcacagcctc 180
gcttcagacc accactccac tccgcccggc acccctcacc acacaccag tgggtgccat 240
caaccagctg ggacctgacc tgcctccagc cacagctcca gcacccagta cccgaaggcc 300
tccagccccc aatctgcatg tgtcccctga gctcttctgt gaacccagag aggtccggcg 360
ggctccagtgg ccagctaccc aacaggggtat gctgggtggag agaccttgcc ccaagggaa 420
tcgag 425

```

&lt;210&gt; 729

&lt;211&gt; 137

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 729

```

gaattcggcc aagtatttgt tcaaccagct gtttggagag gaagatgctg atcaagatgc 60
tgatcaagaa gtgtctcctg acagagctga ccctgaggct gcttgggaac caacagaggc 120
tgaagctaga gctcgag 137

```

&lt;210&gt; 730

&lt;211&gt; 196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 730

```

gaattcggcg ccgcgtcgac cctgggcaac atagtggagc ccatctctaa agaacaac 60
aaaaaatcaa ttgtatttct agatactagc agcaaacaaac ttaaaaatga aaattagcca 120
ggcgcggttg ctcaagcctg taatggcagc actttgggag gccaaagggtg ttggatcacg 180
aggtcaggag ctcgag 196

```

&lt;210&gt; 731

&lt;211&gt; 439

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 731

```

gaattcggcc aaagaggcct acagaatgaa gctccggcta attgcatttg tcttaatcct 60
ctggactgaa accctggcag accagagccc agggccaggc cccgagtacg cagacgtggt 120
gtttctggtg gacagctccg attacctggg aattaagtcc ttcctatttg tgagaacttt 180
tctcaacaga atgatcagca gcctcccat agaggccaac aagtaccgcy tggccctggc 240
ccagtacagc gatgctctcc acaatgagtt ccagctgggc acctcaaga acaggaaccc 300
catgctgaac cacctgaaga agaacttcgg gtccatcggt ggctccctga agatagggaa 360
cgccctgcag gagctcacag gacctatttc tctgctccca gaagtggaa agacaagaaa 420
cagttcccc aaactcgag 439

```

&lt;210&gt; 732

&lt;211&gt; 259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 732  
 gaattcggcc aaagaggcct acaggcttcc cgcaattaaa acatgtcctc tgatcattac 60  
 tgcccatgga gcggttctga gattgaagga tggcgggccgc taagcctgca ttggtgagag 120  
 gacccccaag ctctcgacag accctgagcc agtcttgtaa gcctttgttc tttcttgggg 180  
 ctatggccgc tcggcactcc tttgtggctt gctcatagat tagctgttct atcagaggcg 240  
 cagcttgctc tgactcgag 259

<210> 733  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 733  
 gaattcgcgg ccgcgtcgac cgagtctgag tggctgaatt ctacacatct ctctagtcct 60  
 tctgaagccc caccctctgga gcgctgcctc tgatcacccc agcccacagt gatctgagtt 120  
 cacagagcac atctgtttt aatgccccat ttgaatcaca gcctattcct ctttttgagt 180  
 gttggttgtg ccttaagtgc acagatggct tttcaccagc tggacctcga g 231

<210> 734  
 <211> 352  
 <212> DNA  
 <213> Homo sapiens

<400> 734  
 gaattcggcc aaagaggcct aagtgattcg attcaacata gactacacga ttcattttat 60  
 cgaagagatg atgcctggga atttttgtgt gaaaggactt gaactgtttt cattgttcct 120  
 attcagagat attttggaat tatatgactg gaatctttaa ggtcctttgt ttgaagacag 180  
 ccctccctgc tgtccgagat ttcatttcat gccacgtttt gtaagatttc tccagatgg 240  
 aggcaaggaa gtgttatcca tgcaccagat ccttctctac ctgctgcgct gcagcaaggc 300  
 tctgtgtgcc gaggaggaga ttgccaacat gctccagtgg gaggagctcg ag 352

<210> 735  
 <211> 241  
 <212> DNA  
 <213> Homo sapiens

<400> 735  
 gaattcgcgg ccgcgtcgac gtcgtcacc ctttctccat cgtctcccg aggtcctggt 60  
 gggccggaag gaccagggtc acccctgtgg ccttctctgc ctggcaacc agccaggcgc 120  
 tcgaaacccc ggtcaccctt ggggccagtt tgtccaggca ttctcttggc tccatcactc 180  
 ccagcccgcac ccgtcttcc gggcttcccg gccggaccag gcgggccttg cacacctcga 240  
 g 241

<210> 736  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<400> 736  
 gaattcggcc aaagagccta gggaggtttg tttctgacg ggaggtaggg ggactgctga 60  
 ggataaccag gaccaggggt tcggccccc actaaggggt accctggacc agagtactag 120  
 ttggagccgt acgatagcca ggctggggcg ggccactcct ctgtggagac caagagtaac 180  
 ccaccatggc cctgggtcct gcatgaggtg atgggtaagg acccagaggc ccaccatagg 240  
 aggaaggctg ggccaccaca gggaaggggg ctggctgcag ggctccctgg gctgtcgggc 300  
 ccacaggcaa gcctggggat gggctgtagg gcaaagggta gggagtact acagagggct 360  
 gtggaggctg ttcttcagtc tcaggcgggt tcgcctgggg tactgggcgt gggggtggcg 420  
 ggcgcttttg agggacatct ccagccagct ccggcaaagc tcgag 465

<210> 737  
 <211> 509

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 737

```

gaattcgcgg ccgcgtcgac caaccgtcaa aatgtccaaa gaacctctca ttctctggct 60
gatgattgag ttttggtggc tttacctgac accagtcact tcagagactg ttgtgacgga 120
ggttttgggt caccgggtga ctttgccctg tctgtactca tcctgggtctc acaacaggca 180
acagcatgtg ctgggggaaa gaccagtgcc cctactccgg ttgcaaggag gcgtcatcc 240
gcactgatgg aatgaggggtg acctcaagaa agtcagcaaa atatagactt caggggacta 300
tcccagagagg tgatgtctcc ttgaccatct taaaccccag tgaaagtgc agcgggtgtg 360
actgctgccg catagaagtg cctggctggc tcaacgatgt aaagataaac gtgcgcctga 420
atctacagag agcctcaaca accacgcaca gaacagcaac caccaccaca cgcagaacaa 480
caacaacaag cccaccacc actctcgag 509

```

&lt;210&gt; 738

&lt;211&gt; 343

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 738

```

gaattcgcgg ccgcgtcgac gagctgggtg gtggttggtg agttggctgt gaataatgaa 60
ctgcagccaa tcatttgctt tggcacattc tctaaggtaa gatattgctta gtttcatatt 120
gtgtagcctg cagaactgca cactaatgc ccattggctg ctagattcac tggataacct 180
ctttatttcc tgttgctgaa tgctgttcca tgtaccttct tctaagagaa caagcaattc 240
ttctgtgggt gtcttttccac catcagctag tttagatagt ttttcggcta cagactctct 300
gataaagctg tactgagcga ttgaattcta gacctgcctc gag 343

```

&lt;210&gt; 739

&lt;211&gt; 106

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 739

```

gaattcgcgg ccgcgtgacg aggggttggg tgtttttttt cttcttttct ttttaataaa 60
aatgctgcaa ggtttcgcgc tctgcgttcc cgttggtgctg ctcgag 106

```

&lt;210&gt; 740

&lt;211&gt; 479

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 740

```

gaattcgcgg ccgcgtcgac cgggaaacca aaatggcgag gggctgtatt gaagtgggct 60
gtgtttgagg ccggtgtaag aacgctcatt ctaccccaa cccttgtctc caaggacctc 120
ggtttggtcg tgcataatgt ccgggtaccc ggtggggcgg gtgccagta agtgctcgga 180
ctcgcagggg aagcgccac ggggacggat tggttgtttt ttctgtatg aagcggttgg 240
caccactgaa gtgaccgaat gaggtgagag accttggcct gggaaccgac tcttccggag 300
gagatggggg ttgggggaag gaggaagaaa gaaagcaagt ataaaaggga aagatggagg 360
accaaggtgg ggggtggggc tcctgtatgt ggggtgcctt gcatttatgt gtatattgaa 420
aagaatggat gaagaggagt agtcagttga gtgttgggag aaaaatgaga ctactcgag 479

```

&lt;210&gt; 741

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 741

```

gaattcgcgg ccgcgtcgac gtgtcctttt ctctaaaaat aagtacagat cacattcctg 60
ttttcgaaaa tgataggcaa aagttgggga acattacatg atatccaaaa cacgtttatt 120
ctatatctgt gtttcagatt tcattcttta gcacttgggt tacgagttac tgtgctaact 180

```

ccacaaactc tcgag

195

&lt;210&gt; 742

&lt;211&gt; 592

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 742

```

gaattcgcgg ccgcgtcgac cccattggct gaagatgaga ccattcttcc tcttggtgtt 60
tgccctgcct ggctcctgc atgcccaca agcctgctcc cgtggggcct gctatccacc 120
tggtggggac ctgcttggtg ggaggaccgg gtttctccga gcttcatacta cctgtggact 180
gaccaagcct gagacctact gcaccagta tggcgagtgg cagatgaaat gctgcaagtg 240
tgactccagg cagcctcaca actactacag tcaccgagta gagaatgtgg cttcactctc 300
cggccccatg cgtggtggc agtcccagaa tgatgtgaac cctgtctctc tgcagctgga 360
cctggacagg agattccagc ttcaagaagt catgatggag ttccaggggc ccatgcccgc 420
cggcattggt attgagcgt cctcagactt cggtaagacc gggggagtgt accagtacct 480
ggctgcggac tgcacctcca ccttcctcgg ggtccgccag ggtcggcctc agagctggca 540
ggatgttcgg tgccagtccc tgccctcagag gcctaatagca caccaactcg ag 592

```

&lt;210&gt; 743

&lt;211&gt; 367

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 743

```

gaattcgcgg ccgcgtcgac gtgaccttgg ataaattcct taagttcttt ggtgtttctt 60
catctttttt taaataatag ctttattgaa gtatacagtc atgttgagaa atgcgtcatt 120
agacaatttc gtacatgcgt gagcatcaca gagtatactt atattaaccg agaggataaa 180
ctaccccac acctaggcta tatgatatag tctattgctg ctagtctgca aacatgtgca 240
gcatgttact gtactgaata ctgtaggcaa ttgtagtaca atggtatttg tttatctgaa 300
catatctaaa ctaacaaaag tacagaaaaa tgtgatataa cagattttaa aaaggtacgc 360
gctcgag 367

```

&lt;210&gt; 744

&lt;211&gt; 655

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 744

```

gaattcgcgg ccgcgtcgac tccaaatgag aaaaaagtgg aaaatgggag gcatgaaata 60
catcttttcg ttgttgttct ttcttttgc agaaggaggc aaaacagagc aagtaaaaca 120
ttcagagaca tattgcatgt ttcaagacaa gaagtacaga gtgggtgaga gatggcatcc 180
ttacctggaa cttatgggtg tggtttactg cgtgaactgc atctgctcag agaatgggaa 240
tgtgcttttg agccgagtca gatgtccaaa tgttcattgc ctttctcctg tgcataattc 300
tcactctgtc tgccctcgtc gcccagaaga ctccttaacc ccagtgaaca ataaggtgac 360
cagcaagtct tgcgagtaca atgggacaac ttaccaacat ggagagctgt tcgtagctga 420
agggctcttt cagaatcggc aacccaatca atgcaccag tgcagctgtt cggagggaaa 480
cgtgtattgt ggtctcaaga cttgcccaca attaacctgt gccttcccag tctctgttcc 540
agattcctgc tgccgggtat gcagaggaga tggagaactg tcatgggaac attctgatgg 600
tgatatcttc cggcaacctg ccaacagaga agcaagacat tcttaccac tcgag 655

```

&lt;210&gt; 745

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 745

```

gaattcgcgg ccgcgtcgac cattgtcaaa cttgacctt taaataatct gatttaactc 60
ctttttaatt taaatctgt tttaattcat gacactggaa gctatatata taataacctt 120
tttttcattt tttagttgga caactagtgg tttgaagagc cagggccgct tgtcagtagg 180

```

aagtaatcgt gatcgagaga tcagcatgtc tgttggtctg ggaagatcac aattagattc 240  
 taaaggagga gtagttggag ttctcgag 268

<210> 746  
 <211> 181  
 <212> DNA  
 <213> Homo sapiens

<400> 746  
 gaattcgcgg ccgcgtcgac ataagttaaa gatgtatagc gtgtataata ccttactata 60  
 ccttatcata gtgattcacc ttaccatagt gaaccttaaa atagtatact tctggccagg 120  
 cgcggtggct tacgcctgta atcccaacac tttgggaggc agaggtgggc cgaacctcga 180  
 g 181

<210> 747  
 <211> 694  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (35)

<400> 747  
 gaattcgcgg ccgcgtcgac ataaaaagaa aagtnagggg ggtattgaaa tcgttaaaga 60  
 gaaaaaact aggagcaagt caaaggagag gaaaaaatct aaaagcccat ccaaaagaag 120  
 taagtctcaa gatcaagcaa ggaaatcaaa atccccctacc cttagaaggc gatctcaaga 180  
 gaaaattggg aaggccagat ctccctactga tgataagggt aaaattgaag ataaaagtaa 240  
 atcaaaagat aggaaaaaat ccccaattat aaatgaaagt agaagtcgcg atcgaggtaa 300  
 aaaatccaga tccccagttg atttaagagg taaatccaaa gacagaaggc cacggtccaa 360  
 agagagaaaa tcaaaacggc ctgaaactga taaagaaaag aagccaatta aatctccctc 420  
 taaagatgct tcatctggga aagaaaatag gtcacccagc agaagacctg gtcgtagtcc 480  
 taaaagaaga agtttgtctc caaaaccacg tgataaatca agaagaagca ggtctccact 540  
 tttgaatgat agaagatcta agcagagcaa atccccctcg cggacactgt ctctctggag 600  
 aagagccaag agccgatcct tagaaagaaa acgacgagaa ccagagagga gacgactttc 660  
 ttctccaaga tccccctaag aacacgacct cgag 694

<210> 748  
 <211> 714  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (672)

<400> 748  
 gaattcgcgg ccgcgtcgac cataaagtta attctcataa tttttgctgg gtttaataat 60  
 tcaaaatatg aatcaaaatt tttatttatg cagtttcatt ctattaaaat tatctgctaa 120  
 attaataatta agtagtccta tagcatatat tatttaataa ttgcaagtag tgacatatca 180  
 taaataaact gtataatatg tattattgat tctgttattt tatttttctt agcaatgcac 240  
 aggggaaccag taaatttcac aagcagagaa tactaacttg tcatttattt aatattctaa 300  
 acaaatgaag ccgcctctat aagtgaattt tctggacttc taaagatgag cattgttgag 360  
 tttaataact caaattttta ttgtgttaag taaagtatat taaatataac ctcaccctaa 420  
 tgactcagct gtaattaaaa aagaattcac gaccagcctg ggtaacacgg tgagacccca 480  
 tctctacaaa aataaaaaat aaaaatgaaa attaaaaaaa attagccagg catgggtggca 540  
 tatacccaag tactctgaag gccgaggggtg gaggattgct caaacctagg agtccaaggc 600  
 tgtagtgacc tgtgatagtg ccactgtact ccagcctggg aaacagagca agaccctgtc 660  
 tcttaaaaaa cnacaacaaa cctacacatg aaaattattg ctgcttcctc cgag 714

<210> 749  
 <211> 466  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (25)

<220>  
 <221> unsure  
 <222> (230)

<400> 749  
 gaattcgcgg ccgcgctcgac gtgtnggaga aaaaactgct gagaagccaa agaaactgcc 60  
 accacagggg agacagagtt tgttggtcaa atcccaccaa gtagaggagg gcttggtaaa 120  
 caccttgggt tttccactga aacttcaaaa agatggttca tgctttagaa gtaaagattg 180  
 agtttaaat aaggacagaa aaatattgat tggatttgcc tttttgaccn actcaggaac 240  
 aatttcgggt taggaatggg tatgggagag agagagaaga gcaggctaac gaaatagcaa 300  
 acaactcttg agagagtctg ttgtatggag aaatagggtt gtatttggat ggggaagttt 360  
 tgtttcttag gatggaagac actagagcaa gtctgttttt tggttttttt ttgagatgga 420  
 gttttgcttt gttgcccagg ctggtgtgca gtggtgcaat ctcgag 466

<210> 750  
 <211> 602  
 <212> DNA  
 <213> Homo sapiens

<400> 750  
 gaattcgcgg ccgcgctcgac agtaacactt aactcttcta taagtaatag aatctattta 60  
 gttttgaaga gtagtggata gattgcaagc tcattaccta gtttcacttt caaccagaac 120  
 tggaagaaat attaatggg acaattacac taaaaatatg caaagtatac attttaagta 180  
 ttttatgttc cagaacagct gccacatgtg atactataat caatctaata gaaataaaag 240  
 tccacctctt cttagaacat aggttctcca ctggaggcag ttttgcctcc caggggggatg 300  
 ttgacaatgt ctggacacat ttttggtttt cacagcgggg ggagagaggg actgtgtgcc 360  
 attggcctct agtggataga ggccggggat gttgctaaac atcctacaat gcagagaatc 420  
 acccactgac gacaatgaat ttttctgtcc aaaacgttaa cagtaccaag attttggaac 480  
 cctaccttaa gagtatacat aaggtaatgc ttttctaaaa ggtctgtgtt agagttgcat 540  
 atgtatccag caacatgtga gccctaggac agggccttgc ccataatacc cctcactcg 600  
 ag 602

<210> 751  
 <211> 353  
 <212> DNA  
 <213> Homo sapiens

<400> 751  
 gaattcgcgg ccgcgctcgac gattaaagga tttacctgaa gagaaagcat tctattcatc 60  
 agagactgga caagagttac tcttgcatth ggcaattaaa gatgatgttt ccatggaaac 120  
 agttgatcct gctttcatth attggctgct taggaggtga gcttctctta caaggccctg 180  
 tatttatcaa agaaccagc aacagcattt tccctgttgg ttcagaagat aaaaaataa 240  
 ctttgcatth tgaagcaaga ggcaatccat cacctcatta cagatggcag ctgaatggaa 300  
 gtgatattga tatgagtatg gaacatcgth ataagttgaa tggaggactc gag 353

<210> 752  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<400> 752

```

gaattcgcgg ccgcgtcgac ggggcagggg taaattcgt aaaaataaaag aaatctttat 60
taaaacccaa tgccatggaa attttttaga gaattctcat agttatacta aacctgagga 120
aaaaataacat aatattgact gtttaaagag aactctgttt tcaagcctgt aaaactaatt 180
gatataat tctacctaga atttagatat tatgaaattt ttttttgta ttgttttttt 240
ctttaggatc acagtatcac tcgag 265

```

&lt;210&gt; 753

&lt;211&gt; 589

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 753

```

gaattcgcgg ccgcgtcgac cactttacct gtctgtaaga tggacatggg taggtctacc 60
catgagggct atgtggggat tggagaaaat ggaagtaaag aactagtcca gagccaccct 120
tggtgaaaaa ccactgtcat catcatttac catcgtcatt ctccatccca gccatccacc 180
caccacccgc cagcgtgctc ttctctgtg accgatgtct ccggtgtagc catgaacctg 240
catgctcagg atgcagacga cggtttgga agagggtgcg tgactgccgt gtgggactgc 300
atgtcagctt cccatgaagg ggcaccttgg gtgagctcac tgtttcctaa cggcatctgg 360
cattttctcc ttccccattt gaccatgtca gttatcacca tcctacacga ctgctcactt 420
catttaaaaa aacccagttt gctttttttt aaacctttta tgtattctaa gtgatagaag 480
gtatgggtctt ggtctacgat atgtttttta tttttcttga aatacataaa tattaataa 540
aaattgtgct atgtttccaa ctaagatcat cttgaatctc accctcgag 589

```

&lt;210&gt; 754

&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 754

```

gaattcgcgg ccgcgtcgac taagtacagc aaaaaagaaa gggggggaag aaaagaagaa 60
ggaagaggaa agggaggagg aggattttatc attcacttac actagaaaca gtgaaaatag 120
ataatagcta taattttactc acatcttata taaaacacaa attcagggta atttatgagc 180
aagtcatttt ccggtgggct ttcgatagtg tgtgaatttg gaatgaatgc tgggtacttcc 240
agctcccttc cactgcagc accaggaagc cattgtgttg gggaggccac caacttggt 300
ggcatgttgc ttctgcctca gttagtgatg atggtgattt ggagagaaag gacactcgag 360

```

&lt;210&gt; 755

&lt;211&gt; 536

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 755

```

gaattcgcgg ccgcgtcgac gttgggatat ggtggtttg actaaagaat gggtccttct 60
tctaattcgc caaatttttc atccagatta tggcatgttt acatatcaca aggattcaca 120
ctgccattgg tttagcagct ttaaattgtga taactattct gaattccgat tggttggaat 180
tcttatggga ctagctgttt ataacagcat cacttggat attcgtttcc ctccctgctg 240
ttacaagaaa ttattgagcc ctcccatcat tcctagtgtat caaaatatac cagtaggcat 300
ctgcaatgtt accgtggacg acttatgtca aattatgcct gagttggccc atggattaag 360
tgaactctta tcacatgaag gcaatgtcga agaagatttc gattcaacat ttcaggtttt 420
tcaagaagaa tttggaacaa tcaagtccta taatttaaag cccggtggtg ataaaatttc 480
agttaccaat caaaatagaa aagaatatgt acagctttat accgacttcc ctcgag 536

```

&lt;210&gt; 756

&lt;211&gt; 388

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (192)

&lt;400&gt; 756

```

gaattcgcgg ccgcgtcgac cgaagggtgga ggtggaagac cagggatgca cagctcagaa 60
ggcaccaccc gtggtggggg gaagatgtcc ccctacacca actgctatgc ccagcgctac 120
taccctatgc cagaagagcc cttctgcaca gaactcaacg ctgaggagca ggccctgaag 180
gagaagggaag gngaaggga gctggaccca gctgaccac gccgaaaagg tggccttgta 240
ccggctccag ttcaatgaga cttttgcgga gatgaaccgt cgctccaatg agtgggaagac 300
agtgatgggt tgtgtcttct tcttcattgg attcgcagct ctggtgattt ggtggcagcg 360
ggtctacgta tttcctccaa agctcgag 388

```

&lt;210&gt; 757

&lt;211&gt; 259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 757

```

gaattcgcgg ccgcgtcgac cttagcactt caatttaaaa acatagaggt ggaattttta 60
atgttatatt gagttgactt tggcaggctg aaagaaagta aattaaaaaa aaaaacaaaa 120
acctagagct gttgctctcg gagataagct ctgggaaaac ttatcttagt acctcatgct 180
atttttaaaa cagtacattt atttttgcc gctgataccc ttctgtgagg agttgaattt 240
gaagaccact gggctcgag 259

```

&lt;210&gt; 758

&lt;211&gt; 258

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 758

```

gaattcgcgg ccgcgtcgac gtcaccacgc ccagcccaag aaagatacat ttttaaaaac 60
agctttattg tgggtataatt gacgtaaaat gtacatactt aaagtataca gtgtgatgtt 120
ttgatataata tgtatactct tgaaccacc accacagtta aaataatgaa aatgtccatt 180
acctccagaa gtttcttcat gttttgttgt aatctctcct tctcctcctt gattcctccc 240
catccccagg cactcgag 258

```

&lt;210&gt; 759

&lt;211&gt; 177

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 759

```

gaattcgcgg ccgcgtcgac agtatttaca gtttgactga cattgcttgg ctgcccataa 60
taaaagtgtt tgcttggtg ctattgaatg ctttttaact tagtttttag acaattttgc 120
aggctttatt taagcatgtt gtattttgga ctgaggcaag tctttgcgga actcgag 177

```

&lt;210&gt; 760

&lt;211&gt; 166

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 760

```

gaattcgcgg ccgcgtcgac tgtaaatctt gtaattaatg gtcaaactgt ataaagggat 60
tggtagtcaa aacatgtaca aagaaatacc tgtaaaactg ttttgtctca tgttttattg 120
gaccaaagtt gtggtttgta tggagtgtag tagtagtgga ctcgag 166

```

&lt;210&gt; 761

&lt;211&gt; 208

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 761

```

gaattcgcgg ccgcgtcgac accaaatcac gggactgttc agcaciaaaga aactgaactt 60

```

```

gccaatgttt acagtcttga gaaggttctc catcctgttt acaatgtttg ctgaaggagt 120
tttactcaag aagacttttt cttgggggtat taaaatgact gtatttgcaa tgattattgg 180
agcctttgta gctgccagct ccctcgag 208

```

```

<210> 762
<211> 289
<212> DNA
<213> Homo sapiens

```

```

<400> 762
gaattcgcg cgcgctcgac aaacatactt gtttttaact ctcaggaatt tcatgaggaa 60
caagtttaag ttttatatat atctatgtat gcttttcata aaccacaaat aagtttatac 120
acttttagctg gaacttttta taatttcaga ggggttattg aactgactgt tggcattgga 180
tataagaatt tggcttcagg catttgctat tgaggtttta aaaatgttta aatatcttac 240
tgtaattttt ttgttttggt atttgggaca atgcagctgt aatctcgag 289

```

```

<210> 763
<211> 207
<212> DNA
<213> Homo sapiens

```

```

<400> 763
gaattcgcg cgcgctcgac gaacagttag tagtagggct aagatttggt ttcagatttt 60
atttccaact agaaagacca ttttaacact gttttgggta ttgtttgtag agagctttct 120
aaataagtgg gtacctttat tatgattaag aaagtaattg actatttggt aggatttcac 180
acagaattat tgataagcac gctcgag 207

```

```

<210> 764
<211> 358
<212> DNA
<213> Homo sapiens

```

```

<400> 764
gaattcgcg cgcgctcgac gagaaggagg ggaacaagca gagactttta ctgggacaag 60
taaatacagc cttcagcaac tcaaggaaca aacatacaag acaagctcaa ctcctcgta 120
agaccaaatt aggataacac tacaagaaaa taaattgttt tatctgggtg tggtgctttg 180
gggatagtta attgactact caaataacaa ctttgatagt atatgaactg tgactgtgtt 240
agtaggtttt aattagcagg aactttttgt aaattggaca aaaacttttt ttattatgac 300
taggaaaact gctgttttct atttttgttt tgctctttta aataataaccg aactcgag 358

```

```

<210> 765
<211> 178
<212> DNA
<213> Homo sapiens

```

```

<400> 765
gaattcgcg cgcgctcgac ctactgtttt ctgtgttata ctttgtgtta gtgcagagtg 60
tttggtgtaa ctggctatcc ttttggaatc tttttgttat ttaataattt ttaattgttt 120
acacattttt agaaagtatt cgtttccgta taggatgatt gtatgggtct ttctcgag 178

```

```

<210> 766
<211> 103
<212> DNA
<213> Homo sapiens

```

```

<400> 766
gaattcgcg cgcgctcgac ttgaattcta gacctgcctc gagttgccta ctgatttcaa 60
gtattacatg aagcttgtaa aaataacaag cagttacctc gag 103

```

```

<210> 767
<211> 407

```

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 767

```
gaattcgcgg cgcgctcgac ggcaagtctt aaaaactcga tttttatttt tatttgatt 60
tacttatttt gtttatttat ttgagacaga gcaagactcc gtctcaaaaa aaaagcaaaa 120
caaaaaacaa aacaaaaaca aaagagggtgc aggccagaat tgtccccgtg gacatagtgt 180
gtcaattaga ttgcatactt taatccagcc tcagttggtg tgtctgggtt ttctggctag 240
gaagaatgct gctgtggaat gtgctggaac agatccttac gtgcgctgtg ttggagtctt 300
tccaggtcag gggttctcaa acggatttca ggacccttta catcatccag aatgatccaa 360
tagccccagg agcctgtgtc tgtgtggatt atatctgccg gctcgag 407
```

&lt;210&gt; 768

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 768

```
gaattcgcgg cgcgctcgac gttcattgag gtttaagaga ataaaagaaa ccaaaaaaga 60
acttcacaat tctccaaaa caatgaacaa aacaaaccaa gtgtatgcag caaatgagga 120
tcataactct cagtttattg atgattattc atcctcagat gagagtatat ccgtcagcca 180
cttcagtttc tctaacaga gccacagacc aagaactata agagacagaa ctagtttttc 240
ttcaaaaattg cctagccata aactcgag 268
```

&lt;210&gt; 769

&lt;211&gt; 372

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 769

```
gaattcgcgg cgcgctcgac aaattactta taaatttttt atagttgtat ttttgacctg 60
ccttttatat gtatgaatat ttcatagttt tgcatacag atgtaggcat acagacaaat 120
acataaacca atgaatatat tacatatctt gtgttccaat aaaactttat ttatggacac 180
taaaatttga atttcataaa attttcccat gtcaagaata caaaatactt gagttttgtt 240
tttagctatt taataatagg tctcatttat tccacaggct gtagtttcta gtcttgcttg 300
aaacaataga aacagactga ttaagcagga gaagtttttt gaaagaattt tgtttggttc 360
agcaatctcg ag 372
```

&lt;210&gt; 770

&lt;211&gt; 126

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 770

```
gaattcggcc aaagaggcct agggggtaat ttacatatgg ggtgtatata ttctaaaaat 60
agtaataaaa gtacctttta taagcaatgt tgtgtggcct gtagaagaaa gcaggaggga 120
ctcgag 126
```

&lt;210&gt; 771

&lt;211&gt; 311

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 771

```
gaattcggcc aaagaggcct agtagaactc aagaagacag actaccaagg gtcacttgaa 60
gtcgtgattg ggtcactaat aacaccagga caaagttaag ggatcactac tcaagcataa 120
gccccagttt tcataagact gctgtgaaga tgtttgatat aaaggcttgg gctgagtatg 180
ttgtggaatg ggctgcaaag gacccctatg gcttccttac aaccgttatt ttggccctta 240
ctccactgtt cctagcaagt gctgtactgt cttggaaatt ggccaagatg attgaggccg 300
ggaaactcga g 311
```

&lt;210&gt; 772

&lt;211&gt; 185

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 772

```

gaattcggcc aaagaggcct aaagtcaaga acagtttttc actgcagctt ttagatatat 60
tttggtcata tactgtttac acaattgcc aattcttgcca aatttggtgt tgtgcatttt 120
attttcctcc tttaatgtac tgctctgcaa ttatgcttgt aaaatgtttt tcctgttcac 180
tcgag 185

```

&lt;210&gt; 773

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 773

```

gaattcggcc aaagaggcct atggtgaccc agccagataa tagtatcttg agcaaataat 60
agtatcttga gtgcaataaa gcaggaagac tgtccttcaa aaaatgtggg gttacatgat 120
tttcagagcc tttttttcag agttgagcat cttttctttt aaaagaaata aggggcaaga 180
ggaccaattt tattccttga ggaaaaatga cacacccttc tcccaaaaga aagaaaactc 240
tctggccccc ccccttctcg ag 262

```

&lt;210&gt; 774

&lt;211&gt; 430

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 774

```

gaattcggcc aaagaggcct acacagactc ttgcaagctg gatgccctct gtggatgaaa 60
gatgtatcat ggaatgaacc cgagcaatgg agatggattt cttagagcagc agcagcagca 120
gcagcaacct cagtcacccc agagactctt ggccgtgatc ctgtggtttc agctggcgct 180
gtgcttcggc cctgcacagc tcacggggcg gttcgatgac cttcaagtgt gtgctgaccc 240
cggcattccc gagaatggct tcaggacccc cagcggaggg gttttctttg aaggctctgt 300
agcccgatct cactgccaag acggattcaa gctgaagggc gctacaaaga gactgtgttt 360
gaagcatttt aatggaaccc taggctggat cccaagtgat aattccatct gtgtgcaaga 420
agatctcgag 430

```

&lt;210&gt; 775

&lt;211&gt; 223

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 775

```

gaattcggcc aaagaggcct atagagacat gaagaggctt gaagaaaagg acaaggaaaag 60
aaaaaacgta aagggtattc gagatgacat tgaagaggaa gatgaccaag aagcttattt 120
tcgatacatg gcagaaaacc caactgctgg tgtgggtcag gaggaagagg aagacaatct 180
agaatatgat agtgacggaa atccaattgc agttctccct ata 223

```

&lt;210&gt; 776

&lt;211&gt; 243

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 776

```

gaattcggcc aaagaggcct aaagattcga acaatgagtt taccagctct gagaaaaatg 60
aactgctcca gaaccttcaa gaatgtttct ctgtatcacg cccacatcac accgaatcca 120
tttgctgcca ttgcagagtt catctttctg gttttgagca ccatctcaca cagttctttg 180
tctttttcca gtctgctggt gactgggtta gctcagcccg aaaggtgccc ccaactccctc 240
gag 243

```

<210> 777  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 777  
 gaattcggcc aaagaggcct agagcaagga ggtactctga gagctctggt ttgcagaaag 60  
 agagaaaaga caggatagat gaagagtagc caaaactccg tagaactggg gggagttact 120  
 gagcagacag gatggcatca cagagtgtgc catgggtggg taggagggcg gccaacaggg 180  
 acagaggagg gtcctctgcc agggagagaa acagagggaa tttgggggaa accagttgca 240  
 gatctcgag 249

<210> 778  
 <211> 287  
 <212> DNA  
 <213> Homo sapiens

<400> 778  
 gaattcggcc aaagaggcct acaaaaacca caaaagtgtc tacaagtctc ctggcatatc 60  
 tctattttca gacactgaat ctgcagtagc aacctgtttt ctccaccagc ctagggttca 120  
 taatcttata tgcctgcatg gacccagaaa taaatcagag tacagcccca cctgggccac 180  
 tatctatagg acaaacaccgt ccttccacct gcatttctact ctctccaacc cagggacttt 240  
 gttttctttt aacttttatt tttggttggt tcagggttat actcgag 287

<210> 779  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

<400> 779  
 gaattcggcc aaagaggcct actttcataa atagaatttt catttttata aaattcaatt 60  
 tataattttt tatggtttct ctttattaat cccatttaag aaatctttgt gccatgatta 120  
 tgaagatgca ctctaattgt tttttccaga agctctgtag gtttagcttt tacctttctg 180  
 ggtttgtttt gttttgtttt tttgagatgg agtcccactc gtgtcaccca ggctggagta 240  
 caatgggtgca atctcggttc actgcaacct ccacctcccg ggttcaagca attcccctgt 300  
 ctccacctct cgag 314

<210> 780  
 <211> 502  
 <212> DNA  
 <213> Homo sapiens

<400> 780  
 gaattcgcgg cgcgctcgac cggagcagcg cctattagtg tcatcctcac cgtcacggcc 60  
 ggcgctcct cctggattca ttcactcgt cttttcattc acgaaggtag tgaggcctag 120  
 tggaaagcca tggagagcgc tctccccgcc gccggcttcc tgtactgggt cggcgcgggc 180  
 accgtggcct acctagccct gcgtatttct tactcgtctc tcacggccct ccgggtcttg 240  
 ggagtgggga atgaggcggg ggtcggcccc gggctcggag agtgggcagt tgtcacaggt 300  
 agtactgatg gaattggaaa atcatatgca gaagagttag caaagcatgg aatgaagggt 360  
 gtccttatca gcagatcaaa ggataaactt gaccagggtt ccagtgaat aaaagaaaaa 420  
 ttcaaagtgg agacaagaac cattgctgtt gactttgcat cagaagatat ttatgataaa 480  
 attaaaacag gcactactcg ag 502

<210> 781  
 <211> 217  
 <212> DNA  
 <213> Homo sapiens

<400> 781  
 gaattcggcc aaagaggcct agagagagag agagagctat taataaaaca gaggagtaca 60

ttttaccctt gcaattccag tcaatactgt ggtgtcattt cagccaacat accaacattc 120  
 agtcaaattcc caaagccaaa tggataattt cagatggaat ggagtttagac aggaactggc 180  
 ttcccttttct cctgttacta tgaggacaac cctcgag 217

<210> 782

<211> 219

<212> DNA

<213> Homo sapiens

<400> 782

gaattcggcc aaagaggcct aggaatcatt gcttactggg tagagaattt ctgttcggga 60  
 tgaaaatttt tagaaacaga tagtggcaat agttatataa cagtgtgaat gtaattaatg 120  
 ccactgaact gtacagttaa aaatgggttaa catggcaaac ttatatctat ttgccacaa 180  
 ttaacaacaa caaaaaaagc atgggctatt agactcgag 219

<210> 783

<211> 257

<212> DNA

<213> Homo sapiens

<400> 783

gaattcggcc aaagaggcct aggggagcgt tgtgttccat gctgctgtcc aggcaccag 60  
 cggcatgagt agcctatgca acctttagag caaggcggtc gcggcttcgc atccaacat 120  
 gggcactgta tgatgtcccg catcaggcctt tcttatgtct gcctggagac cctaattatg 180  
 ggcggcataa tttgtccttg acgggtctcat gcattttctg ggctgaatat ccggcaagca 240  
 ccagggttta gctcgag 257

<210> 784

<211> 218

<212> DNA

<213> Homo sapiens

<400> 784

gaattcggcc aaagaggcct attggaaaat agctgtgctg tcagcttttt gaggggggga 60  
 tttgttttgg tcagtcagtt ttatcataaa tttggcattt ggggttaaac agcaacatgg 120  
 aacaaataat ttttagatgt tggaaattcc tgggtttttt tgttttgttt tgttttgttt 180  
 ttttgagaca gcgtctttgt cacctgggagc ttctcgag 218

<210> 785

<211> 197

<212> DNA

<213> Homo sapiens

<400> 785

gaattcggcc aaagaggcct acttgttcca gcgagttgac tataattttt tctaccctgt 60  
 tatctacctc tagctccatt gaacatcttc cttctgttaa gtgatagcca taagttctta 120  
 gtagegaaat tattggatca aagagtagga caatttttat ggcactttta atgtgtgttt 180  
 tcaggcattg cctcgag 197

<210> 786

<211> 125

<212> DNA

<213> Homo sapiens

<400> 786

gaattcggcc aaagaggcct agtgccaaca aaatttaaatt ttttctcatt aggattcaga 60  
 tttcagatta ggcaaacagt ttgggtgatt ctgtgatgta tgtaaagggt ggaaggggctc 120  
 tcgag 125

<210> 787

<211> 204

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 787

```

gaattcggcc aaagaggcct agtgattata aaattccatt tgattctttg tttttctcaa 60
attgcataag cagtgcagtag gaagaagatg atgaaccaca ggaggagtag tcagaagggg 120
agaagaacga gaaaagtaat gtcacagact gtgaggggaaa attatccaca aagatgggat 180
gttacagtgc cagatgagct cgag                                     204

```

&lt;210&gt; 788

&lt;211&gt; 493

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (18)

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (181)

&lt;400&gt; 788

```

gaattcgggc aaagaggncct accccagctg atcttgaact ccagagctca agtgatcctc 60
ctgtcttgcc cttccaaagt gcttgaatta caggcatggg ccacagtgcc cagctgggaa 120
tgatttttag acagcaatct tagtgctttg ttaatttttg ctttgcattt taaacatgtc 180
ntctctgttt ttttcattcc ctttaccatt tataattttc ttcattattt cactatgaac 240
taatgtaaac acaaaacatg ttcattcctt gaatgtaagc tacacactta aacctttttt 300
gatacacttc ccagttttatc tgatgccata tgaaaaaact tggattttatc tccagattcc 360
tccatatctt gtctttctgt ggatggctca taaagtgtgc gtgtatgtgt gttgtgtttg 420
ctagatacat tataattatt gttattttatt tatttaaaga aaggatcttg ttctgttgca 480
gtggcatctc gag                                     493

```

&lt;210&gt; 789

&lt;211&gt; 151

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 789

```

gaattcggcc aaagaggcct acgattgaat tctagacctg cctcgagcta tgcgtttgta 60
tttcttgctc cagcctctga atgttatctt caagttgctt gactctgaac tcactctctt 120
cagactgccg cctcctgact tccccctcga g                                     151

```

&lt;210&gt; 790

&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 790

```

gattggctgt tagctttgag ctcagagaga aaaatacatt tagaagtttt tattgtgttt 60
tcttttagtta cggtagcgta gaataagggg acttaaaatt ggatcccttg aaattatatg 120
ttaattttta aaataagttt attaggtgga aggttctgta tcttttatca aaattgcaaa 180
ggagtctgtg aaataaaaag tactcagctt agattctaca gtattttcaa ctgtcttttt 240
ggattttttt tttgagacag tcttgctctg ttgccaggc tagaggacaa gtagtgcggt 300
cttgactcac tgcaacctcc gcctcccatg ctcaagctat tattctcatg cctactcgag 360

```

&lt;210&gt; 791

&lt;211&gt; 281

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 791  
 gaattcggcc aaagaggcct agagggatgg agagagagat gaaggaactg cagacccagt 60  
 acgatgcact gaagaagcag atggaggtta tggaaatgga ggtgatggag gcccgctctca 120  
 tccgggcagc ggagatcaac ggggaagtgg atgatgatga tgcagggtggc gagtggcggc 180  
 tgaagtatga gcgggctgtg cgggaggtgg acttcaccaa gaaacggctc cagcaggagt 240  
 ttgaggacaa gctggaggtg gagcagcatg agcaactcga g 281

<210> 792  
 <211> 279  
 <212> DNA  
 <213> Homo sapiens

<400> 792  
 gaattcggcc aaagaggcct acaggtgact cgaatgaact ctgcattttc aacgtgcctt 60  
 ctactgcttc aggacctggg ggtccccctg accctcactg gcttgcccc agccctgggc 120  
 ctggccccac ctgtcctgga gccagagacc cctggcctgg agctgcctct ctgggggtggg 180  
 tctcaggccc caccctctcc tcttttgagt tcagtgcctt gctcagcccc tccctgtat 240  
 ctcagcgtct tgagacctct gacagagcga caactcgag 279

<210> 793  
 <211> 326  
 <212> DNA  
 <213> Homo sapiens

<400> 793  
 gaattcgcgg ccgcgtcgac ctaaaccgtc gattgaattc aaggcctacc tgggaagaag 60  
 taaaagagca actagaaaag gaaaagaaag gctccaaggc tttggctgaa tttgaagaaa 120  
 aaatgaatga gaactggaag aaagaactgg aaaaacacag agagaaattg ttaagtggaa 180  
 gtgagagctc atccaaaaaa agacagagaa agaaaaaaga aaagaagaaa tctggtaggt 240  
 attcatcttc ttcttcacat agctctgatt cttccagcag ttcttctgat tctgaagatg 300  
 aggataagaa acaaggaaaa ctcgag 326

<210> 794  
 <211> 239  
 <212> DNA  
 <213> Homo sapiens

<400> 794  
 gaattcgcgg ccgcgtcgac gacaccatgg ccaagctcat tcttgtcaca ggtctggcaa 60  
 ttcttctgaa cgtacagctg ggatcttctt accagctgat gtgctactat accagttggg 120  
 ctaaggacag gccaatagaa gggagtttca aacctggtaa tattgacccc tgctgtgtta 180  
 ctcacctgat ctatgccttt gctggaatgc agaataatga gatcacttac aactcagag 239

<210> 795  
 <211> 100  
 <212> DNA  
 <213> Homo sapiens

<400> 795  
 gaattcgcgg ccgcgtcgac attgaattct agacctgcct cgagtgaagt acccaatgag 60  
 gaacctaaaag ttgcaacagc ttatagaccc caagctcgag 100

<210> 796  
 <211> 714  
 <212> DNA  
 <213> Homo sapiens

<400> 796  
 gaattcgcgg ccgcgtcgac ctactagct aaaaaaatc cttgggggtct ggagtcacat 60  
 aaattatttt caatgcctgt tatttcaactc ttgattttcc acaagatgac aagcctcttg 120

```

gagatacctc cttgtatcta ctttccaggt tattagatac attattttcc caggtacatt 180
atagtttccc agatacatgt atagctttcc cagatacgtt atttttccat tatatagcaa 240
aattttcatc ctgtggatta gaaattaaat ttcacaaagc acctaagaaa gtcttaactg 300
ttctaaatct taagtgaata aagacctggc atgtgtttgt gttgtgtatg tctctctgtc 360
tctctgtgtg tgtgtgtgtg cgcgcgtgcg tgcgtgcgca ttggtatcag ttctgaaagt 420
gtatattggg gtctaagtta ggctcatgct ctcagaaatt tgatgcaaca tgcttgatt 480
attttgttca atatgagagt taaaaagtac attatagtgc tattttggaa aagaaagaaa 540
agcttttcag tagtaacctt acattttgca ttgtatatgt taccttttgc ttctttttct 600
tacacacgta taaaaagta cataatgata atggtatcat tattgttgtt ttgtttaacc 660
ctcatggatc actgtttccc aggttctctg ctaagtacca tacatgctct cgag 714

```

&lt;210&gt; 797

&lt;211&gt; 180

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 797

```

gaattcgcgg ccgcgtcgac gagggaggtg gtggtagttt gtgtttaata tttctagtta 60
agctgggtgag agaagagagg aggaaagggt tcctaaggaa gtagatagct gagttgagtc 120
attagagata aataagagct aatgagaaaa tatgtgggca gtatagtgtt gggactcgag 180

```

&lt;210&gt; 798

&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 798

```

gaattcgcgg ccgcgtcgac agggcatctt gatatgctgc tcagtctctg cttctctctc 60
ttccagatac actgtgcaga tgaagtcacc ggcattgctg gtcccaactg cagtgccagc 120
cacgcgcac ttcacaatgg cagtgatctc cccccgctgc tcgag 165

```

&lt;210&gt; 799

&lt;211&gt; 422

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 799

```

gaattcgcgg ccgcgtcgac gaattctttt taaattttat tctggttggg attggctggg 60
cttctgaaat cttgtggatt tttatcttcc taagtttggg aaaatttttt cagccatttt 120
cttaaaatac agcttttccc catttctcct tcttccctga gactacattt aaatatatgt 180
tagactttct cactatattt acttctgggt tctttttgta ttaccaacc ttttttcttt 240
gtttgttgaa acaaggcttg gctctgttgc ccaggctgga atgtagcggg atgatcgtgg 300
ttcactgcaa cctctgcctc ctggggtcaa tcgatcctcc cacctcagcc tcccaagtta 360
gctcgcagta catgccacca ttcttggtta gtttttgtat cttttctaga gacagactcg 420
ag 422

```

&lt;210&gt; 800

&lt;211&gt; 329

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 800

```

gaattcgcgg ccgcgtcgac cccccaggct caagcaatcc tcccatttca gcctcccgtg 60
tagctgggac cacaggcatg tgccaccaca ccttgctaag ttttgttttt tgttgtttg 120
tttgttttgg agagaaagggt ttttgccatg ttgtccagat tggctcctaaa ttcttgact 180
caagcaattt gccacacttg gcctctcaaa ccgctgggat tgacgcagat aaccacctca 240
accagccata ttctgtttct attataaatg atgagattaa gcgttcagac tgctgtttgc 300
aaacagtttt cacaatggtt acactcgag 329

```

&lt;210&gt; 801

&lt;211&gt; 436

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 801

```

gaattcgcgg ccgcgtcgac gtagaacagt gattactgga ggctgggagg aaagggaggt 60
ggatatggag aggttggtta acagatacaa aattacggct agataaaagg aataagttct 120
agtgtctgtg gcactgtagg gcgactagag ggtgtagtta acaatttact gtatattttc 180
aaatagctag aagacaggat ttctaacttc cccaacacaa agaaatgata aatgtttgag 240
gtgattaccc tgatttgatc attacacact gtatacctat atcagaatat cacactgtac 300
cccataaata tatacaatta cctatcagtt ttaataaat aaattttcaa aaaccacaat 360
atttttttga atgagactct acctaaaatt ttattatggt ctctctttat ggctttcttt 420
tgggaaaaca ctcgag                                     436

```

&lt;210&gt; 802

&lt;211&gt; 725

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 802

```

gaattcgcgg ccgcgtcgac atgcacttta ggtttgtttt tgcacttctg atagtatctt 60
tcaaccacga tgttctgggc aagaatttga aatacaggat ttatgaggaa cagaggggtg 120
gatcagtaat tgcaagacta tcagaggatg ttgctgatgt tttattgaag cttcctaatt 180
cttctactgt tcgatttcga gccatgcaga ggggaaattc tcctctactt gtagtaaacg 240
aggataatgg ggaaatcagc ataggggcta caattgaccg tgaacaactg tgccagaaaa 300
acttgaactg ttccatagag tttgatgtga tcaactctacc cacagagcat ctgcagcttt 360
tccatattga agttgaagtg ctggatatta atgacaattc tccccagttt tcaagatctc 420
tcatacctat tgagatatct gagagtgcag cagttgggac tcgcattccc ctggacagtg 480
catttgatcc agatgtttggg gaaaattccc tccacacata ctcgctctct gccaatgatt 540
tttttaatat cgaggttcgg accaggactg atggagccaa gtatgcagaa ctcatagtgg 600
tcagagagtt agatcgggag ctgaagtcaa ggtacgagct tcagctcact gcctcagaca 660
tgggagtacc tcagaggtct ggctcatcca tactaaaaat aagcatttca gactccaacc 720
tcgag                                     725

```

&lt;210&gt; 803

&lt;211&gt; 297

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 803

```

gaattcgcgg ccgcgtcgac ttctaaaatt ttatataaat agaatcatat agtaagtact 60
tctgttgccct ggctcctatt actcagagta attgttgata tttatccatg gtgaagcatg 120
tgtcagagtt tattcctttt tattgctaag cagtgttcca ttgtgtatct gttttactac 180
agtttgtcca ttcacctgtt ggtggaccct gggttgttct tggttttggg ctctacacct 240
agaagctcct atgaacattt gtgtacaagt tttggtattg ttaaagttaa actcgag 297

```

&lt;210&gt; 804

&lt;211&gt; 701

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 804

```

gaattcgcgg ccgcgtcgac aaaagggtaa gtataagaaa atattgcaaa cacattaaaa 60
cagttgtatg gtgcaggaaa agaagattgg aaaaagacca aaacacactt ctccagcaac 120
actccatcag ctttttaaaa tttagagcta tctgctaatt ttttcctctt tccttctcaa 180
taaatgaaac aaacactggg cagctgcagg tttctcccaa tcatgtctct ttatgtaaaag 240
acagtaacat gcaaacactt ttagtttaca tccctcattc acagtgtaaa gcaggaaatg 300
gtgtgggaga tgtgagacca ttctgaggtc agcgatagcc caaaggctct gcagtattcc 360
ctccaatggc caaggattcc gtgtgtcatc tgcaggagtg agtaggcctg ctgtatttct 420
tgtaactgct ggggtgttaca aaataagtta caatgtttta cactttaaaa aaaaaacaga 480
aggaaacattt gctttattgg ttacttacta gttagcctc taggttatgg cacagcatgc 540

```

taaaaaatca tgtgttttaa agtaaatgtt ggtaaaatgc tggcatctgg tcctattgtg 600  
 ttgatgcatt ttcacttctg tggcatagg aaatggactg gtctaaagag agtgaggcac 660  
 aacacaagca gggcattagt ttgaatagga agtctctcga g 701

<210> 805

<211> 269

<212> DNA

<213> Homo sapiens

<400> 805

gaattcgcgg ccgcgtcgac ccaaccgtcg attgaattct agacctgcac tccagcctgg 60  
 gcgacagaac aagactccgt ctcgaaaaaa ataaaaataa ataaaaataa atatatatag 120  
 tgtagtatca aaggaaaaca gcaaaacttt aaatatgtgc ttgaaaaatt aactgttttg 180  
 taggttaaga gcacagtgtc gcagcttttg acttaacata attaatcag atgttagcca 240  
 tacatacctt ttccatctgc cttctcgag 269

<210> 806

<211> 259

<212> DNA

<213> Homo sapiens

<400> 806

gaattcgcgg ccgcgtcgac cgtcgattga attctagacc tgcctcgagt gttgtgtggc 60  
 catgggggat aggaggttgg ctgttatcgg cctctgctcc tgtgggtttt actccttctt 120  
 ggctacctg ctgctcttcc agtctccatt cccacctttt tctctctctc gcagccactg 180  
 tttgatgctg gactgcagga aaatagtca cgtgcagga gtgtccaggc agtgttccca 240  
 ccaacagtac actctcgag 259

<210> 807

<211> 216

<212> DNA

<213> Homo sapiens

<400> 807

gaattcgcgg ccgcgtcgac ggacagggga ctgggcagaa aataatattg tagaaggtag 60  
 aacagcattt ctttgggagg atttatcttt ttaagtatat agtgggtctt taccactatc 120  
 ctacaacagg ttgcaggaca aataatgtat tttaatcttt gggggagtct ttgtgtaagt 180  
 cagaccttat tcattttcat tccaacaacc ctcgag 216

<210> 808

<211> 705

<212> DNA

<213> Homo sapiens

<400> 808

gaattcgcgg ccgcgtcgac acctgcctct aaataaataa ataaataaat aaataaaaaat 60  
 aaaggcaaat ctgatcaagt catgctctgg gataaaagct cttaaaggctt cacccttttg 120  
 tttaggagaa tgcttgcccc agcctggaag atccgggcct tccccctccc ccaagccctt 180  
 ctctccagct ccacccttcc caccctgattc ctcccacaga tcaactgaga tataaatata 240  
 actctccacc taaaaatatt acgggtagaa gtaacactga ggatggctag aaatggatat 300  
 aagaaaaactc attattgact aaaatgcaca aaagaatcaa atcttgacca cgaatctttt 360  
 tttttgggtt taatttaaat cttccaaaat ggaatggggg taccagtcata atcacacaat 420  
 ggcagaaact cgtgtcaaga gcctgcagcc cccacactga tggatgcctc caatctcagc 480  
 agcagaatgt gtacggaatc gatgccgatg aaaacagttt cagtaaaatt acaaaaagaat 540  
 gaaaaacatg gacatttggt taactgtact acaggggaaa aacaaaaatc tgatcaaaga 600  
 attaatgttg atgaatagag ttcaagctgg agaacacctt cttaaaacat tttcagggtt 660  
 agtatgtttt ggtttaaaat gtttgcattc aaggttctcc ctata 705

<210> 809

<211> 230

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 809

```

gaattcgcgg ccgcgtcgac gtgagctaaa gcagtcaatt ttttcatgga gcaccacgaa 60
agaacaaaag acatataaat tatgggttatg caaagtaaaa tataacaacat tttcttttct 120
ctcctttttt tttttttttt tttgagacag gtcttgctct gtcacccagg ctgcagtgca 180
gtggtggtgc catcactgct caacacagct tctatctccc aggactcgag 230

```

&lt;210&gt; 810

&lt;211&gt; 544

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 810

```

gaattcgcgg ccgcgtcgac cgtcgattga attctagacc agcccgcca acacagcgaa 60
accccgctct caccaaaaaa atacaaaac cagtcaggcg tggcggcgcg cgcctgcaat 120
tgaggcact ccgcaggctg aggccggaga atcaggcagg gaggttgag tgagccgaga 180
tggcagcagt atagtccagc ttcggctcgg catgagaggg agactgtgga aagagaggga 240
gagggagacc atggggagag ggagagggag agggagaggg agaggaccgt ctgctttaa 300
aatgggaaat atcagtattt gaggcaatga agtcaaaatt gacctaatga gatgttgata 360
cgattctttt cctgaagctt taatacattt acatttttat ttttggaac tcactttcat 420
tctgtacatt tatactgtac ctattttgtg ttgtcagatg tacgtgtgtg agttactgat 480
ttctctctc acacatggag acacttgga gccaatcagc ccaccaggaa ataggctcct 544
cgag

```

&lt;210&gt; 811

&lt;211&gt; 714

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 811

```

gaattcgcgg ccgcgtcgac cccaacctg cccgcatgcc ctatatctca gacaagcacc 60
ctcgacaaac cttggaagtg attaaccttc tgagaaagca ccgggagcta tgtgatgtg 120
tgctagtgtg gggcgccaag aagatatatg cccatcgagt cattttgtca gctgtagtc 180
cctacttcg agctatgtt acaggagaat tggcagagag ccgtcagaca gaagtagtga 240
tccgagacat tgacgagagg gctatggaat tactgattga ctttgcgtat acctcccaga 300
taacagtaga agagggcaat gttcagaact cttctgccag ctgcttgctt cctccagctg 360
gcagaaatac aggaagcctg ctgtgaattc ttaaagagac aattagatcc ttctaactgc 420
ctgggcattc gggcttttgc tgacacacat tcatgtcgtg agttgctaag gatagcagac 480
aagttcacc aacataactt tcaagaggta atggagagtg aagagttcat gttgcttcca 540
gccaatcaac tcattgatat aatatccagt gatgagctaa acgttcgcag tgaagaacaa 600
gtgttcaatg cagtgatggc ctgggtcaaa tacagtattc aggaaagacg tcctcaatta 660
ccccagggtg tgcagcatgt tcgtttgcct ttgcttagtc ccaagccct cgag 714

```

&lt;210&gt; 812

&lt;211&gt; 309

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 812

```

gaattcgcgg ccgcgtcgac acagaaaagg gcttggttg acaaatttac aagggttggt 60
aaacatacaa agtgccaaaa gcttatagtt attcattcta ttacttggtg gcaggtaaat 120
attttgtgga aagtatttgt ttatttttat ttttactttt tgaggtggag tctcgccctg 180
ttgccaggc agcagtgcag tggcgcagtc tcggctcact acaacctctg cctccgggc 240
ccgagtgatt ctctgtcttc agcctcccaa gtagctggga ctaaaggcat gcaccacat 300
cacctcgag
309

```

&lt;210&gt; 813

&lt;211&gt; 178

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 813

```

gaattcgcgg ccgcgtcgac gtcgattgaa ttctagacct gcctcgatga atcccgaac 60
ctttccaaac acgtctcatt tattagttct aatatctttt agtagattcc ttagtgggtt 120
tttttgtttt ttgttttttt ttaataatat aaaggatcat gtcacttgca aactcgag 178

```

&lt;210&gt; 814

&lt;211&gt; 342

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 814

```

gaattcgcgg ccgcgtcgac aaccttcttt tgtttgtcag cagccaaggt gtttcagga 60
agttcagaga gaacagaatt taagaagtgc aacatggcca ggggctgcct ctgctgcttg 120
aagtacatga tgctctcttt caatttgata ttctggctct gtggctgtgg gctgctggga 180
gtgggcatct ggctctcctg gtcccaaggc aactttgcca cctctctccc cagcttcctt 240
tcgttgctcg cagccaacct ggctcatgcc ataggcacca ttgtcatggt gacgggcttc 300
ctcggtgcc tggggggccat caaggaaaac aagttcctcg ag 342

```

&lt;210&gt; 815

&lt;211&gt; 668

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 815

```

gaattcgcgg ccgcgtcgac gtgtgccttt gctgttgaag agtccgaaa cttaatcaaa 60
aatagatgtg aggggttctgc tgcactgtac tgggtgtcta aactatacta gacgtggggc 120
ttagaagagc tccccctttcc acatagaaaa gctctatggg gttggatcac tctctacaga 180
ttcttctttt gaatccatt ggctctccca gttgttcttg acacctatag ccacagagaa 240
ggagtcacaa agtgaagccc tcagcttgte cttctctaag ctctctgcag ctcagtggc 300
ctcatctgaa cagtgcagat gatagttacc acttcatagg gctgcctaga aaacaaaatc 360
cagtagtggt caaatcacct catagcacat cgtagatgct caagaaagt ggctggtgtt 420
actcacattc tgctgcagcc cctaggtctg ccccatctct gacagtcctc caacttggtc 480
tctccctgct ccttgctccc ttctctctag ggtttgctga gagcagaggg agagaaaggg 540
tgggtggcca gtcacccttg ctggctatga caggttgca tcatggtggg aaaggagaca 600
gcatcactct taagcactct cctgagattc atgatggaca ctctccagc aacgcagggg 660
ccctcgag 668

```

&lt;210&gt; 816

&lt;211&gt; 344

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 816

```

gaattcgcgg ccgcgtcgac ggcagatggt gtgaagaggc attgtgagct aagtgtatag 60
gtgaggtgag ttaataaaag atgtaaatc tggcctaaaa tggtagaggc tcatggatatg 120
caggaaaatt taattaagtg gccaccactc ttcccccat caattggatt ttcttctgcc 180
acagtaagaa gtcattccagg atatgctggg ggggcactta gatgagtcct ggtccgttga 240
gtgttttcat ttctgatata tctaattgcc agcgaggaa cttgaacgta agaaaatcat 300
gtgaaacttc atcaaaaatt aataatcacc aagcaggact cgag 344

```

&lt;210&gt; 817

&lt;211&gt; 163

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (135)

&lt;400&gt; 817

```

gaattcgcgg ccgcgtcgac gggggggcct ttattaatat tgtcacacca caccacacca 60
cacacacaca ccacaccaca ccacaccgtt tgaaagctgc atcaagctgt gcacaaacat 120
gatcgcagtg ctgtntttgt taagcctccg ccttcccctc gag 163

```

&lt;210&gt; 818

&lt;211&gt; 319

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 818

```

gaattcggcc aaagaggcct aaacaaggga tttgaacgtt tttcagcaca aaaggataac 60
ttccgagtgg tggctctgtac gcatactagc aaaggtaatg gtgatctagc aaacaaaatt 120
ggtttctgca gttagaagtg agcaggagca cttgtattat agtatttaa taatcctggg 180
taatctcttt ttaagccgag taaccctcc agattttgcc tttttattat tgaggctggc 240
tttattttct tctacttttt ttcccgtttt atagcagtta attatttttg tgattattat 300
gcaagaagca ttactcgag 319

```

&lt;210&gt; 819

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 819

```

gaattcggcc aaagaggcct acagagaact gaatagatga ggggtgttga aagaaacgtt 60
tttgggcatg gtgtaaaggc atgcttgagg gattctaagg aggctgggtg gtggctggaa 120
ctaagtgtgg ggaatgagagg tactaggaga tcacatgaga ccatgtaggc cactgttagc 180
agttagtaca atggtaaatg agtagaagga ttttgaacag caagattgct atgatcttac 240
ttaacactta taaaagagtc actcctatga cttttgtagg gtgagtaagc tatagtaata 300
tcaatagaaa tgaacatgct ttgcatttgc catgtgtcag gtattattat tattatttat 360
tttacttttt ttgagatag ggatccactc gag 393

```

&lt;210&gt; 820

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 820

```

gaattcgcgg ccgcgtcgac gaaggataag aacaggtcgg agatgtccgc ccagaggtta 60
atttctaaca gaacctccca gcaatcggca tctaattctg attacacctg ggaatatgaa 120
tattatgaga ttggaccagt ttcccttgaa ggactgaagg ctcataaata ttccattgtg 180
attggatttt gggttggtct tgcagttctc gtgattttta tgttttttgt gctgaccttg 240
ctgaccaaga caggaacccc acacctcgag 270

```

&lt;210&gt; 821

&lt;211&gt; 163

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 821

```

gaattcgcgg ccgcgtcgac ctacatagtt ctttctgaat acaaattctca gataaaacac 60
tatctcagtg atcaaccagg ttaagcaacc tttttagtcg ctcaattatt ccatttgtaa 120
aattgtaata atgatagtac taacctataa gattattctc gag 163

```

&lt;210&gt; 822

&lt;211&gt; 200

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 822

gaattcgcgg cgcgctcgac attagaagct ctagtgagtg aagtttggtt atactttgaa 60  
aatatactaa gatggaacca ttaaaaacag taataatttt tattatcttt catttggtca 120  
agaatgataa aaagcatcaa ctagaaggga aacttcaaga tadcagatgt cgattgacca 180  
cccaaaggca agatctcgag 200

&lt;210&gt; 823

&lt;211&gt; 284

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 823

gaattcgcgg cgcgctcgac ccaatacaca ccacactgtc tacttcagtg gggaaatacc 60  
aaccttcctt caccaatcca gaaagaaatc tgtaatatga gattcctcga cagtgtagaa 120  
acctagtctt gtgtagtatg gttgttttgg acatttgtaa atttattttt aaagttttat 180  
ttgtatatat ctttttgaga caggattttg cctgtgcagc caggttggag tgcagtggc 240  
tgatcatggc cactgcagc ctcaatcccc caggctatct cgag 284

&lt;210&gt; 824

&lt;211&gt; 275

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 824

gaattcgcgg cgcgctcgac tattgtggta ctgtttataa tttattgggtg ctcttaggac 60  
cttagtgagg gttggctact ttttggttac acactaagta gctccagact gttttaaaaa 120  
tgcttgtttc tgctgtatat aggtttttat ttatttggtt gtttttggtg ctgcttttgt 180  
ttcttccctt ggtgttgggt gacattttta actatcatag ataccctttt cttaaagcagt 240  
ttctatctcc tgggtccacc cccctccacc tcgag 275

&lt;210&gt; 825

&lt;211&gt; 256

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 825

gaattcgcgg cgcgctcgac catctgggta tttggaaaca agtggtcatt gttacattca 60  
tctgctgaac ttaacaaaac tggtcatcct gaaacaggca cagggtgatgc atttccctgc 120  
tggtgcttct cagtgtcttc tttccaatat agatgtgggc atgtttgact tgtacagaat 180  
gttaatcata cagagaatcc ttgatggaat tatatatgtg tgttttactt ttgaatgtta 240  
caaaagggaat ctcgag 256

&lt;210&gt; 826

&lt;211&gt; 276

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 826

gaattcgcgg cgcgctcgac agagcttaaa ggctggatta tgcaaatact aacttttttt 60  
attttagtga aaacgattca aatttcaaca catttaataa taaatgagaa aatttcagta 120  
gataagcata gaacaaatgt aaaagaaact ctcttcaacc aagattgtac tattgtatgt 180  
ggtctaaagt atagtaatat ttttactcag aatgggtgaat taaagatact gggagcttct 240  
gaaatgcac cttattccaaa aatgggggtta ctcgag 276

&lt;210&gt; 827

&lt;211&gt; 169

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 827

```

gtccttgtgc tgaggagaag gatgtttatt ctgatatcca ttagatgaaa tttctgttaa 60
atatctatta ggtccatttg ttgtacagta cagattaaagt ttgatgttcc tttttgattt 120
tctgttattg gaagatctat ccaatgctga aagtggggcg agtctcgag 169

```

```

<210> 828
<211> 172
<212> DNA
<213> Homo sapiens

```

```

<400> 828
gaattcgcg cgcgctcgac catcaagtct acaagaaaat taaaggagtc tttgattaac 60
agtggttttt caaacaaacc tgtgtacaa ctcagtaagg aaaaagttca gaaaaaagc 120
tacagaaaac tgaagactac ctttgtaaat gttacttctg aatgcgctcg ag 172

```

```

<210> 829
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (251)

```

```

<220>
<221> unsure
<222> (264)

```

```

<220>
<221> unsure
<222> (274)

```

```

<400> 829
gaattcgcg cgcgctcgac gctgctctga tgacttttaa aaactgattt gtagggattc 60
tttgtgtaaa cactaatgct tgatctgata tatcaaattg tgtgaatgct taacagacca 120
agcattagta ttcacacatt catgtgcatg tgtacatgtg tgtgtgtgtg tagtatctta 180
tgcatcttac cctagaggat gccactcacg taactttatt tttattatgt atataataat 240
cagggtacac natatctgtt tttntgaaaa gctnactaat acagcagaat ctatctactt 300
tcatttcctt agtttgaagg tgagtataca aaattcaca tctctacttt gaataatctt 360
gaaataaaaac atgagattac tcgag 385

```

```

<210> 830
<211> 246
<212> DNA
<213> Homo sapiens

```

```

<400> 830
gaattcgcg cgcgctcgac tatcttaaac tcctgaaata gatattctaa acaatttaaa 60
attaaccctg ataacaaca gttccccaat cagcactggt cattggacca tacttgagtg 120
tacattgctg tagtgtgaga ctttcatact ttttttaaaa ttgtcacctg tattaagaaa 180
tacattttac attttcatcc agtggttatat catatacaca tgtacataac tgaacaata 240
ctcgag 246

```

```

<210> 831
<211> 323
<212> DNA
<213> Homo sapiens

```

```

<400> 831
gaattcgcg cgcgctcgac ctcctttgct cttttttaa ttggattatt tgtctttaa 60
ttttagatac taatccctta tcagatattt gatttgcaaa catttttctt tctttgtagg 120

```

```

ttgccttttt attttgttgt ttgtttcctt tgcacgctg aagcttttta gtttgagcta 180
gtctcattta tttttacctt tgtagctaag ctttttgtgt attacccaaa aaatcattgc 240
caacaccaat gttgaggaac tttcctccta tgttctcttc tagtttatgg ttttgggtct 300
tatatttagg tcattcactc gag 323

```

&lt;210&gt; 832

&lt;211&gt; 343

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 832

```

gaattcgcgg ccgcgctcgac gggagtcata tacagacttt tgtggatttc atgttaaaaa 60
aaaaaatca attgttataa gagaacacac tgttttgtta aaaaaaaaaa tcttttttgt 120
tgtgcatatg tatttacaca catatatcca tgtgtactcg gtctcaatat caaaatattt 180
cttacagtta cttatggtca aactgtttga aatacttgta ttttaatttt ctgggtgtgc 240
ttttcagaca ctctggaaag cagaactaag aaatgatttc tggggatatat ctaggaaatg 300
tcacctcagt tatagccag aaacaactgt ggcccgaactc gag 343

```

&lt;210&gt; 833

&lt;211&gt; 383

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 833

```

gaattcgcgg ccgcgctcgac cttttaaaac gttgtccgca tttgtactca gtgggacaca 60
tcctagggcc tgctgtatcc tgcaaagtat agaatactgg aatcagaagg aagctttctt 120
ttccccctac tgttttagtct ttttgggagg aaaaagaccc gaaatttgtg gtcattttaga 180
tgttcattaa cctggctcgca ttcatcacta gtccatttca gtcctcgagga tgtttaattt 240
cagtcctctt ccaggtttgc atgcttcagt cctcttctgg gtttgcattc ttcagagggt 300
ctcggcactc agtctcccta gaactgtctt ctcccaaact tcccctaact cttcttccgg 360
gtcctatccc ccttccctc gag 383

```

&lt;210&gt; 834

&lt;211&gt; 191

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 834

```

gaattcgcgg ccgcgctcgac ctcagaagga gaatgttgtt gcttgagcct cttttgagct 60
ttaaaaagga caaggaaagg cactgtacgg agtgttttac ttttgacttt tttttcatga 120
ctacaaactg ttggatattg aaaactctgc atttacttgt gaattgccag tctgtgttg 180
cgtcactcga g 191

```

&lt;210&gt; 835

&lt;211&gt; 194

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 835

```

gaattcgcgg ccgcgctcgac tgtcatttca tttcggtttc ttttctcgcc atgtttttct 60
gtcgggaatta cggttcgttt tggttctatg tactctctaa aatgttatcg tttttcattt 120
gtctactaat tttcgtgcat ttgttactac tgagtttctt aatatctgac tggcctccgc 180
ccacgggtct cgag 194

```

&lt;210&gt; 836

&lt;211&gt; 206

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 836

```

gaattcgcg cgcgctcgac gtttgagtct tctgatgtaa aacatttaaa cagggaaatt 60
tctgctgtcc tcagaacaag atctgtattt ctgcctcttc cctaccacc cctcttccac 120
acctcataat gttatttatt ttttttctct ttagtgggca gttttatctg gcaatagcaa 180
ctcaatttta tggcaacgcg ctcgag                                     206

```

<210> 837  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

```

<400> 837
gaattcgcg cgcgctcgac tgtgcgtgta tgtatgtgtg tgtgtgtaga cggtgtcctg 60
aggttcatca gctaaaataa tataataaagc aatccctaca aaatatttca aaccaggcaa 120
atgacttctg gaagagagag aaaggaagag ctcgag                                     156

```

<210> 838  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

```

<400> 838
gaattcgcg cgcgctcgac gcatttgatt ggtcagagtg gttttagaat gctttttgaa 60
ggaaaataaa aatggacaag atattgaaga atagggggaa tttggccatg agtagaagac 120
aggagacttt tactgaaact cactccttca acctgttttt cttttattgt cgtacttggt 180
accatgtctt tatggcttgc tgtccttatt tcactgtatg ctcactctaa tcttttagga 240
aattgcaaaa ttattaaaaa ttgccatagt acaaacctcg ag                                     282

```

<210> 839  
 <211> 199  
 <212> DNA  
 <213> Homo sapiens

```

<400> 839
gaattcgcg cgcgctcgac gcaaaacatc catcttatcc gagccccctc tgcaggcaaa 60
gggaaacagt tggagagaa aatgggtacag cagttacaag aggatgtgga catggaagat 120
gtcctttaa aatctctgta accatttctt ttatgtacat ttgaaaatgc cctttggata 180
cttggaaact cgactcgag                                     199

```

<210> 840  
 <211> 146  
 <212> DNA  
 <213> Homo sapiens

```

<400> 840
gaattcgcg cgcgctcgac ctaaaccgtc gattgaatc catgccctg tctctctgtc 60
tttatgtgtt gccatttctc tgccccctgc tttggctctc tttctcagag tgtctcttga 120
tctctaactc ttctctttgt ctcgag                                     146

```

<210> 841  
 <211> 225  
 <212> DNA  
 <213> Homo sapiens

```

<400> 841
gaattcgcg cgcgctcgac caccetaatt atccggctgc ggcacaacgt gattaagaca 60
gggtgacgca tgatcagcct ctctatttcc cgaatctcct tggtgacat cgcccagaag 120
ctgcagttgg atagccccga agatgcagag ttcatgtttg ccaaggccat ccgggatggt 180
gtcattgagg ccagcatcaa ccacgagaag ggctatgtcc tcgag                                     225

```

<210> 842

<211> 280  
 <212> DNA  
 <213> Homo sapiens

<400> 842  
 gaattcgcgg ccgcgtcgac cctaaacctc gactacatat tctgaaccag ccaggggaagg 60  
 gtgagttagt tgtttctgtt ggtcaactga atctcaggta tctttggtct tcctttctct 120  
 tacaatggaa gtaatgttca ggacctatct gagaccagtc ccttgtctac tgctcttcat 180  
 ccttttttct cttgttttct caatggcttt actccttctt ctcttcaaca gcatcagctc 240  
 tgcccccctt tactctttgg caaagacacc caatctcgag 280

<210> 843  
 <211> 361  
 <212> DNA  
 <213> Homo sapiens

<400> 843  
 gaattcgcgg ccgcgtcgac agcttttctt tctacttgca gggtcaccaa agtgaaaatt 60  
 gagggttcat ttttttctta ttgctgatac ctgtagcctg agaatgttac ttctagcagt 120  
 tgtcttcatt ttgtttatct ttattaatgt agaaaattat caaacccata gaaaaattga 180  
 gaggtagagt aatacccata tgcccctgtc cttggttctc cagctattaa caccttgta 240  
 tattttctat ccctccttcc ctctcttact ctttcttctt tctctctctt tcttcttctg 300  
 tctcttctct tttgtcagac catgtgacac ttcaccaaca tataacactt cactcctcga 360  
 g 361

<210> 844  
 <211> 121  
 <212> DNA  
 <213> Homo sapiens

<400> 844  
 gaattcgcgg ccgcgtcgac gggagacaaa gaaatatcga aagcaagtaa agaaaaaaaa 60  
 agacaccagt gatcaacaga ataaagccag aatgagattg aagttagaaa cttggctcga 120  
 g 121

<210> 845  
 <211> 366  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (69)

<220>  
 <221> unsure  
 <222> (75)..(76)

<220>  
 <221> unsure  
 <222> (97)

<400> 845  
 gaattcgcgg ccgcgtcgac ctgggaacat ggtcaagggt gaaggggctc ccctagagag 60  
 ggtgggggng tagtnncttc ccagttggcc agaaaanagg gccttgacga ccccttagc 120  
 attttttccc ttttttctct tcctgtcttt ctacttcttt ggggagcccc ttgtgttttg 180  
 gagtctgact ggagtctcgc atcctggggc ctgctccatc catccctcct gggcgccaga 240  
 ccctccatcc aagccctgtg tctttccata gtcagggtca ggccttgcct ctattccaag 300  
 gggcactcag tacacattcc ataaattagc tgggtgtccc tgcacgccc ccccatgaaa 360  
 ctcgag 366

<210> 846  
<211> 183  
<212> DNA  
<213> Homo sapiens

<400> 846  
gaattcgcgg ccgcgctcgac tggttctttt atagctaata aatatacctt tatctggctt 60  
taagattttc tctaatactt ggttttaagc aatttggtta tgagggtctt tgatgtagtt 120  
ttatgtttct ttttattatt attattaaat ggtgtctcac tctgttgccc aggcttactc 180  
gag 183

<210> 847  
<211> 191  
<212> DNA  
<213> Homo sapiens

<400> 847  
gaattcgcgg ccgcgctcgac atcctgggtc ttgcctgtaa tatcaatcaa ttgtttcacc 60  
ttctcctcaa agtcagcacc attatgggtc gaaatcatct gtgcaagtct aatttggtct 120  
gcagtggcct gtggccgctg cttgtgctgt gtctgggttt ggttttgagg ttgttcccag 180  
ttccctcga g 191

<210> 848  
<211> 207  
<212> DNA  
<213> Homo sapiens

<400> 848  
gaattcgcgg ccgcgctcgac gtcacctcaa gcatttatcc tttgtgttac aaacaatcca 60  
gttatacttt tttagttttc ttaaatgtac gattaaatga ttattgacta tagtaaccct 120  
gttgtgctat caaaaatatt agggcttatt cattatttca ttcaattttt ttggtaccca 180  
ttaatcatcc ctacccctc cctcgag 207

<210> 849  
<211> 235  
<212> DNA  
<213> Homo sapiens

<400> 849  
gaattcgcgg ccgcgctcgac ggaattatct agtccccaga ttgatcatct ccctggcaa 60  
cgtgactctg ttttttgtgt gtgtttccat gctgactagt cccctactgt taataatcact 120  
actaattagg ctataaccag gtctttcttg gctgagaaa tattctctta aaatgacctt 180  
tgttttaatc tcattcatga tgttgatttt ttttcaatgt ggtgctgggc tcgag 235

<210> 850  
<211> 205  
<212> DNA  
<213> Homo sapiens

<400> 850  
gaattcgcgg ccgcgctcgac cctaaaccgt cgcttgaatc ttaaaaactt ttatattcct 60  
tggtcataat tgatctgaca gataacagtt tgttaaaata ataatagtga ccatgtattc 120  
gattatgctt ctgtgggttt gtatatgtgt gtgtatctat acatgggtact taggtataag 180  
tgaaatgaat gacagcgatc tcgag 205

<210> 851  
<211> 221  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 851

```

gaattcgcg cgcgctcgac cgcagacccc acactcttct gcaattcatt tcatagttgt 60
caagactata caaattgtcc tttttaatgt tctctcttct gctatcccta gttggcagtc 120
ttcctcttta caacctgctg aaagtggag acctccagtt ttcctttaat tcctcagcaa 180
accaccaact attatatgtc ttttttccag aacaactcga g
221

```

&lt;210&gt; 852

&lt;211&gt; 254

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 852

```

gaattcgcg cgcgctcgac ctaacaatga agagtcaaga aaaagctaatt ttaggagaaa 60
atatggagaa gtcttctgtc agcaaggaag aagtcaaaga agtcagtatt gaagatacag 120
gtgttgatgt agatccagaa aaactggaaa tggagagtaa acttcataga aatttgctat 180
ttcaagattg tgaaaaagag caagacaaca aaacaaaaga tccaacccat gatgttaaaa 240
ccccacact cgag
254

```

&lt;210&gt; 853

&lt;211&gt; 247

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 853

```

gaattcgcg cgcgctcgac gtcatttgac aacatccctg gcttttggtt gtttctttct 60
gggtagagac aaatttactt tccatttctg ataacaacgg agtcagtcct cctgctgcc 120
gaggattttt tgaacacagc tgaatactgc tccttcgcat ttctgagaga gggcagaacc 180
gggtcatcgt gttgcttgac agagggccat gataactgtc tacagatatt taaaggggtg 240
actcgag
247

```

&lt;210&gt; 854

&lt;211&gt; 253

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 854

```

gaattcgcg cgcgctcgac aattagtgtg catcattaaa ttatcaaata agtataaatt 60
agtactcttc tttttctgga taatagaagg atcttagaac actttaattc catttatctc 120
cctcacagtt tttatgctat attgccatct acttacattc ttggtaaatt ttaacttca 180
gaagacatta ttattattgt tgtttgaaca gttaatatatt attgagagtt actcatatat 240
ttgccacctc gag
253

```

&lt;210&gt; 855

&lt;211&gt; 318

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 855

```

gaattcgcg cgcgctcgac acctgcctcg agcctaggct gctccttttc acctaatata 60
cccagtttat aaatgggact cagttataaa gtttaggtcc acctcctcca ggaaattttt 120
tcctgacacc tccttcctcc caatctcggg tgggtactct agcattgtgc ttccacctt 180
tgcacagagc aatcatcatg ttaccacat ctactattaa cataattggt tctgtgtttt 240
tctctctcac aagattttatt ttttttagat gaggtgttgc tgtgttgccc aagctggact 300
tgaacccta ggctcgag
318

```

&lt;210&gt; 856

&lt;211&gt; 249

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 856  
 gaattcgcgg ccgcgctcgac aggtttcagc ttcttctga ttcaatcttg ggtgggtgta 60  
 tgtttccagg aattcatcca ttttttaaat ttttttttag cttttttagt ttgtgtgcat 120  
 agagggtgtc ataacagtat ctgaaggctt ttttgtatta ttgtggagtc agtggtaatg 180  
 tcttcttctg catttctgat tggatttatt tggatctact ctcatttttt ctttattagt 240  
 ccgctcgag 249

<210> 857  
 <211> 212  
 <212> DNA  
 <213> Homo sapiens

<400> 857  
 gaattcgcgg ccgcgctcgac aggtttccaa tcaatataaa tatatatata tatatacaca 60  
 cacatatata aaaagtataa tttttctatt ttgttttttg gttttaattt gcagagattt 120  
 gctgccagga atcaattttg aggggttcaga tttagcttgg aagaaaaaaa agaaacatac 180  
 atccttcagt ataggagatg agggcactcg ag 212

<210> 858  
 <211> 426  
 <212> DNA  
 <213> Homo sapiens

<400> 858  
 gaattcgcgg ccgcgctcgac caaaaaacaa aaaaagaaaa tcttagaaaa agaaaataaa 60  
 ttgtaatatc tcagaatatt tgttggggag gatattgtgtg ctcaagaaat acatactgag 120  
 aacttaccat tgatgctaga gattgaattt ccccatgtct acatgaaaaa tgaatagaat 180  
 ataaacattt taaattgagc catgtctatc tgtattatat ttcttttata gaaattcatg 240  
 gaaatggtat attttaactg aattattaac actggggaca ataggcttta atcattatct 300  
 aatacctgta cgttgttttg aaattcatag cccaccacca ttaatttcaa aattgggttc 360  
 ttactcaaag agtgatgaaa aggcaccagt accaaatggt ctggccaaaa tgctacatgc 420  
 ctcgag 426

<210> 859  
 <211> 215  
 <212> DNA  
 <213> Homo sapiens

<400> 859  
 gaattcgcgg ccgcgctcgac catttgacct tttacaaat ccctaagtaa ataaatagcc 60  
 cctcaggaaa actaagtgtt tctctgctg ttttttgctt gagagagcta taactgtaat 120  
 agacttatat tttgaacat tttagtgtt gccaatattt ggtaatatatt atgtttccta 180  
 tattttgtaat gaacattctt cttccggtac tcgag 215

<210> 860  
 <211> 672  
 <212> DNA  
 <213> Homo sapiens

<400> 860  
 gaattcgcgg ccgcgctcgac cccagcctcc cttccacag aggccaccgt catggccagt 60  
 tgctgcagtt tctttccaga gaacctgtgt atgtgtaaag ctgtacaggc gtgggtacac 120  
 cacacagcct gtcttgact gtggactgtt gatttactag tacatctaga attctcctgg 180  
 ctattccagg ctgcatgttt accttaacct tccctgtgat gtcttcatgc cgttgtcttc 240  
 ttatgcaaga ataagactca aatgactcca gaaagctaca cttcctgttg tgagtatatg 300  
 atatccattt ccttacatag cactaacat cagggtttta caattttatt tatttcttgc 360  
 tactttaaga aatttttgtg gtgaaatata tataatagaa gttgactatc tgaatcattt 420  
 ttaagtatac attcagtagt gtttaagtat tgcattgtg tgtacaacca atctccagaa 480  
 ctttttcatc ttgcaaaaaca aactctgtac ccattaaata acattaaaca ttccattccc 540  
 tccagcctca gcaaccccat tctactttct gtttctgtga gtttgactat tccaagcact 600

tcatatcagt taaatcatga agtatttgtc tgtctgtgac tggcttattt ctctgagcac 660  
 agtgctcctc ag 672

<210> 861  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<400> 861  
 gaattcgagg cgcgctcgac ctacaagttt ggacttggtt ctggaatctg cctacttggt 60  
 caaaatatta atagcatatg atattataaa ttaatgatta gttttatgta ttgcagaaaa 120  
 tatttaatta tcttgatttt tcttaataata tttttatgtt tacaatttga cttagttaaag 180  
 gatgaaaaca aagtagcaaa actcgag 207

<210> 862  
 <211> 171  
 <212> DNA  
 <213> Homo sapiens

<400> 862  
 gaattcgagg cgcgctcgac taaacacatt atgatttttag taagacatat gcattattta 60  
 cacatgtact tcttaatat aaagatagta tttgtaattg gttttgacct tattcagact 120  
 atgggttagag tacatactaa gcaagaatta aaggctttcc attttctcga g 171

<210> 863  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<400> 863  
 gaattcgagg cgcgctcgac gtgttttcag aaagagaaaa catctcctgc aaagatctgt 60  
 aggttgacc ttgaaagaac aagacaaaac caaacttcaa gactatcctc ctgtttaaaa 120  
 ggagactagc aggtgtcaaa gagaggcggg aaagctcatg atacctgatg taatcagtgc 180  
 cctcctcctc ctggccgcag caggatgcct tcccttcaat gactcccaac tcgag 235

<210> 864  
 <211> 256  
 <212> DNA  
 <213> Homo sapiens

<400> 864  
 gaattcgagg cgcgctcgac tagaatcgtg gatccccatg gccctccttt gtcacatttt 60  
 tctttttact gttctcttac cccctttcac tctcaactca ctccctccat gctgctgtac 120  
 taccagtacg tctctttacc aagagggttct atggagaatg tggcttccca gaaatattga 180  
 tgtcccatcg tataggggtt tttctaaagg agaccacct ttcaccacce acaaccatat 240  
 acccccgaca ctgag 256

<210> 865  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<400> 865  
 gaattcgagg cgcgctcgac aattgacacg tcacactctg gtcagaagggt gtttaagtagt 60  
 tctgtttatt caagggaatga agtacaacca ctttagccca gtgctcaagg ttatactttc 120  
 cttactctgt accaattctc tagtctcacc atcgagggtt gctgagggcc ctcagaccca 180  
 tcacatgcat tctgcctca gcgtctcctt tctgtgcaac acctgtcctt ctctggcac 240  
 taaccaaagt tcaccattcc tcgag 265

<210> 866

<211> 262  
<212> DNA  
<213> Homo sapiens

<400> 866  
gaattcgcgg ccgcgtcgac cttttctttt ggctgttatg tgtaaacagt tctctgttta 60  
ctttgcatgt tatgttttat ttttctcttg cttgacaact tgtgccagag aaacattttt 120  
ctaccctttt ttgtctactc ttccaacctg tcaaactgtt gaattttcct tctcttttca 180  
tagtctctgc atttctaata atgttacta tagttcagtg ctgcccaata gaactttctg 240  
ctgcggggcg ggggtgctcg ag 262

<210> 867  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 867  
gaattcgcgg ccgcgtcgac atctacttct agcttttttc ctatttttggc tccggccggtt 60  
ggttcctatc tcccccgac tgcccgcgct cacagtcctg ctcccttgtc ttttgccctca 120  
tatcgtcagg tagctagttt cggttcagct gctcctccca gacagtttga tgcattctca 180  
ttcagccaag gccctgtgac tggcacttgt gctgactgga tcccacagtc ggcgtcttgt 240  
cccacaggac ctccccagaa cccaccttct gcaccggctc gag 283

<210> 868  
<211> 219  
<212> DNA  
<213> Homo sapiens

<400> 868  
gaattcgcgg ccgcgtcgac aaaacgtcag aacatttggg gttttaaact gatttggtgc 60  
tccctatcca gcctagacac cagtaactct tgtgttcacc aggaccacaga cccttggtcaa 120  
gggataggct cgttggtgac attgtgaatt tcagatttgt tttatccact ttttttgcta 180  
tttattttaa tggtegatca acttcccaca acactcgag 219

<210> 869  
<211> 258  
<212> DNA  
<213> Homo sapiens

<400> 869  
gaattcgcgg ccgcgtcgac gtaatacaga agggagtagg taaaaaatc tgtaattctg 60  
aaaaagtatt agtataaact ttaattagta tttcatcttt aaatgttttt ctggctctgt 120  
ccactgaaga agcttagaaa taatgaccaa atctgttaca tccataccat tgtgatctta 180  
aaatatcttt ttctactaga agaaatggct ggttcagaaa attgcttatt ccccatgggg 240  
caggaagtgc acctcgag 258

<210> 870  
<211> 298  
<212> DNA  
<213> Homo sapiens

<400> 870  
gaattcgcgg ccgcgtcgac ctgcatttta aatatattgg ggacagattg cgctgagacc 60  
tggttatgag caagccaatc ttttgaatct agagaatgga attcttaggt ttatatttct 120  
gttaagaaat actataaata tgactcttat gagaagactt tgttgctctg tagtgtttct 180  
gaatactgta tttgttggat tgatcaaggc tatttttcaa aaagctctct gcttctctgt 240  
tgtttgtttt tttgtttttg agacagagtc ttgctctgtc gccggggctg aactcgag 298

<210> 871  
<211> 150

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 871

```

gaattcgcg cgcgctcgac cgtccctctc tctgacagaa gccatataag gtccatgagg 60
gtagagattt tcttttttct ttgtgttaat tgctgtatcc tcagcacttg gaaaaagggc 120
ctggcacttt gggatgagcg aacactcgag                                     150

```

&lt;210&gt; 872

&lt;211&gt; 241

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 872

```

gaattcgcg cgcgctcgac attgaattct agacctgcct ctagtgtgtg ggtgtgtttg 60
tctttttgtc ttccatcttt tggtttacat ttaaatcatc tcaaaaaata tccctgcat 120
gtatcattca gcttctcaga gtttttgtgt ttttgtctgt gtatgtgtgt gtgtgtgtgt 180
gtgtgtgtgt gtgtgtttta aaacattttt tcttttgtt aggccacatg ctacactcga 240
g                                                                 241

```

&lt;210&gt; 873

&lt;211&gt; 228

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 873

```

gaattcgcg cgcgctcgac catgtctccg tccctgtcac ggggtgttct tttcctcttc 60
ctctccctca gaagtctgcc catcctacaa ggagatgtgc aggaccctcc accccgaaca 120
ggtaactcgc tgcctccac ctccatcacg cagcctgacc ctgtgagccc ctctgtgctc 180
tgtggaccgc tcaccctgag ctccctcagt gctgaaccac ccctcgag                                     228

```

&lt;210&gt; 874

&lt;211&gt; 178

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 874

```

gaattcgcg cgcgctcgac atattaactc aaaagaaata ggggtgatttt taaaggatta 60
ataaaattct gaaatgtaa gtagaagatt acattgtcta gtcttgattt tctccttct 120
gtgtctctct ttcattcaca cactctcagt ttctcatatt tgtagctcat tgctcgag 178

```

&lt;210&gt; 875

&lt;211&gt; 179

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 875

```

gaattcgcg cgcgctcgac agtggctccg caggatatat ctgatttaaa aaataggaaac 60
cacaataata atagctgctt atgcttatgg agcattgccca tgtgctagat aggcaccatc 120
ctcagccctt ggcaggctctg agctccttta tttcttccaa tcaacactgt cagctcgag 179

```

&lt;210&gt; 876

&lt;211&gt; 214

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 876

```

gaattcgcg cgcgctcgac caagatttta ccaaggccaa ttttagtagc ttgtttctg 60
gggtattttg tctggtaaat atacagaaat aagaatgata atgaaagtga taatgatagg 120
aataataata ggaagagtag tgactttttg tctttgtgta tcaattcatt caacaaattt 180

```

gaccaagtgc ctgctacatg ccaaagcact cgag

214

<210> 877

<211> 436

<212> DNA

<213> Homo sapiens

<400> 877

gaattcgcgg ccgcgtcgac gtgcatgtcc caacaactca tctcaaatac taaattcaaa 60  
 agaaaaactg tagttctcct cagcatttagc actaatttat ggtaacaatc atttctttta 120  
 aatgtctaac ttatttaacc ccttcatttc aaactgcaaa ttaaagcatg tatttacata 180  
 tttatataca aaaaacttca aaaacaaatt aatccaaatc ttgggtccaag agtttccact 240  
 ttataagtgg tatggtacta tgctatatat atcctcttcc aaaagtctct taggacttgg 300  
 taagtccaa atattcattc acaaattggt cccctttaag cttaatgaac catatacttc 360  
 atttctgagt aaatttagagg aaatattaca gaacacgctt tgtacaatac agcaccacta 420  
 ctgagaaggg ctcgag 436

<210> 878

<211> 174

<212> DNA

<213> Homo sapiens

<400> 878

gaattcgcgg ccgcgtcgac cttatttatt actgaaataa tctaaactga ataaataact 60  
 ttttaaaaaa ttacattggc cagtattagg ttctgatgc gtatttgggt tttgtttgt 120  
 actgctgggt ttttctctc cagtattgga tgcgttaacg gggatgcact cgag 174

<210> 879

<211> 229

<212> DNA

<213> Homo sapiens

<400> 879

gaattcgcgg ccgcgtcgac ctcaaaaaa aaaacaaaca aacatgttgg tcaaatttat 60  
 aattaaaagc acaatagtta ttggttgttt attgaataaa atcaggagtt ttaataatat 120  
 tgggtgtggg caccttgatg gatgggacca cagtatgaag gctgtagtaa tccagcatga 180  
 ggtgcccttt atttctcttt tcagattcaa gacgaggcac gacctcgag 229

<210> 880

<211> 110

<212> DNA

<213> Homo sapiens

<400> 880

gaattcgcgg ccgcgtcgac atttatctga tcctttacag aaaaagtttg ctaacccttg 60  
 ataacagata ctctaaaatg caggtttttc ttcttcaatt ggtgctcgag 110

<210> 881

<211> 239

<212> DNA

<213> Homo sapiens

<400> 881

gaattcgcgg ccgcgtcgac gtgacttggt taactgcac ttttcccag tagttagtct 60  
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 ttttagcttt gtcgatgggt ttctgttgca aattttggtg cacgtttaat gtgaacaatg 180  
 gttatgagac gagtgccatg agttcctgtg tgcctgtcac ccagcccggc acgctcgag 239

<210> 882

<211> 159

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 882

```

gaattcgcg cgcgctcgac ctgtgtggat ggactgagcc tagctaagtc ctgattcatt 60
ttgacttgag ttctctcagt gggaagaatg ggaaagattt acagcttcgt cctgggctgcc 120
attgctctga tgatgggaag ggaagggttg gccctcgag                               159

```

&lt;210&gt; 883

&lt;211&gt; 121

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 883

```

gaattcgcg cgcgctcgac ggggtctctt gcttttggtc ctctaaaaac tggctctgcta 60
actttttaat attttcttca tgctgtgctc tcaattcctt catctgctgt ccacactcga 120
g                                                                                   121

```

&lt;210&gt; 884

&lt;211&gt; 257

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 884

```

gaattcgcg cgcgctcgac cctagcttga atttgaaaca acagcacatc ttaatttgga 60
cactaaattt tcatcaaaaa tatttcattg atttagattt cataaattta cagttgaaaa 120
agtagatgta catatccaaa ttgtcccaaa catgcttaaa atttttccag tatgtatgtt 180
gttttaaaat atttatattt ttgttggtgt tggttggttt ttttaagatg gatttttgc 240
cttgctaccc cctcgag                                                                 257

```

&lt;210&gt; 885

&lt;211&gt; 141

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 885

```

gaattcgcg cgcgctcgac gtctctctct gagctctatt tgcttcagtg caacatgaag 60
ttcatgacct agtccgcctt tgagagggca cttccgattc tcaacgtggc cctcgcatcc 120
ctccacccca gacaactcga g                                                                 141

```

&lt;210&gt; 886

&lt;211&gt; 286

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 886

```

gaattcgcg cgcgctcgac gcaacatgag gcttttcttg tggaacgcgg tcttgactct 60
gttcgtcact tctttgattg gggctttgat ccctgaacca gaagtgaaaa ttgaagtctt 120
ccagaagcca ttcatctgcc atcgcaagac caaaggaggg gatttgatgt tgggccacta 180
tgaaggctac ttgaaaaagg acggctcctt atttactcc actcacaac ataacaatgg 240
tcagcccatg tggtttaccg tgggcatcct ggaggctcgg ctcgag                               286

```

&lt;210&gt; 887

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 887

```

gaattcgcg cgcgctcgac ggatcagaaa tattgcttgg aaagtgctga gctcatgatg 60
gatgctcaac aagcggtagt tatgataatg gcagggaacg cggtggggtt gcttgctctg 120

```

ttttctgctg gttttggcgg tctgcaaggg gagagcagcc agcaggcagg gcacctgtgt 180  
acgtcgatga ctgaccaccc catggtaccc cagatctatc tccccaaaac actattcttt 240  
ctgcctggga cccattctct cgag 264

<210> 888  
<211> 290  
<212> DNA  
<213> Homo sapiens

<400> 888  
gaattcggcc aaagaggcct atgaagcagg cgctcttggc tcggcgcggc ccgctgcaat 60  
ccgtggagga acgcgccgcc gagccaccat catgcctggg cacttacagg aaggcttcgg 120  
ctgctgtgtc accaaccgat tcgaccagtt atttgacgac gaatcggacc ccttcgaggt 180  
gctgaaggca gcagagaaca agaaaaaga agccggcggg ggcggcgttg ggggccctgg 240  
ggccaagagc gcagctcagg ccgcggccca gaccaactcc aggcctcgag 290

<210> 889  
<211> 243  
<212> DNA  
<213> Homo sapiens

<400> 889  
gaattcggcc aaagaggcct agctaccaat tcttctactc ttcgtgctgt ttcttctctg 60  
atgagttttt cttctatttc ttgctgtcga atttttcgct gccgctcgaa ctccgctttc 120  
ttctctctct cctctcgtt ctgcttctcg tccaggctgc tgcgcttgc cctcacgttt 180  
tgcaagttct tcctctctc tagctttttg tgcggcaagc tcagcttgc tctgtcgtc 240  
gag 243

<210> 890  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 890  
gaattcggcc aaagaggcct aagctggtgt cattacacgt caacctgcct tgagccaagt 60  
cctgcttcac ctgcagcgcg aacagggtacc ttgtgagttc ttcttgaggt tgtgtgtggt 120  
caggcggaag gaatttcacc acaaacttaa caacaacgtg ctttggcctt ctaactctgt 180  
tcacaatggg ttttaggaga tccagccaca ccgtgatctt tttgtgatca ggaaactcga 240  
g 241

<210> 891  
<211> 431  
<212> DNA  
<213> Homo sapiens

<400> 891  
gaattcgcca aagaggccta aaaatatctg ttttaataaca agataaccac atcaagatgg 60  
ttggaaagct gaagcagaac ttactattgg catgtctggt gattagttct gtgactgtgt 120  
tttacctggg ccagcatgcc atggaatgcc atcaccggat agaggaacgt agccagccag 180  
tcaaattgga gagcacaagg accactgtga gaactggcct ggacctcaa gccacaacaa 240  
cctttgccta tcacaaagat atgcctttaa tatttattgg aggtgtgcct cggagtggaa 300  
ccacactcat gagggccatg ctggacgcac atcctgacat tcgctgtgga gaggaacca 360  
gggtcattcc ccgaatcctg gccctgaagc agatgtggtc acggtcaagt aaagagaaga 420  
tcaagctcga g 431

<210> 892  
<211> 384  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 892

gaattcggcc aaagaggcct agtctgtcct gttgtgtggg gcgaagtgat ggactctgcc 60  
 aggtggacat gctgtgggtg gatgttcccg gcgtgtgccg ggcctgaatg gacaggggcc 120  
 acttcacagc atgtcagggg aaatcactgt cacacaattc caatggattt tgtgctcttt 180  
 ttgaaaaaaa aaaattcttt agcgtaaaca tgaatttttt ttcaatgtag cccctgggga 240  
 atgaatgaaa ttttgagctt cttcaatacg taaaattaaa tttataccac tgaggggagag 300  
 accctttctg aaagaagtat ggccaaaagc actttaatgc tgctgacatt gttgttttta 360  
 tgttcatttg ctggagcgct cgag 384

&lt;210&gt; 893

&lt;211&gt; 208

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 893

gaattcggcc aaagaggcct agtggggcct ggctatctag aaaccaccgc aatggctgga 60  
 gccaaagtttg gtcaatgggg taaacatttc agaaggtagg cagggcatgc cctgaggcca 120  
 ggaggcctct gccgccttg ctgtgtcctc aggatggcca attctcacag aaaccaccac 180  
 aaggaaagat ctctgggac gactcgag 208

&lt;210&gt; 894

&lt;211&gt; 479

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 894

gaattcgcgg ccgcgtcgac atcaatattt gtattatggt gctatatatt ggtaatgac 60  
 cttaaatatt gggaaggat tttaaaaata ctgtgattaa actgggttct tcctttgatt 120  
 ttcatatttt aaataaagcc acagtcattt atacaaaaga aaagcatctg tccttgggca 180  
 aatcttttga ggacagaggt caaagtaaac tgcataaggt ttttacatca tttctgtatg 240  
 tatttgatat atagatcaat atctgtacaa atttaattct ttattttctt ggtaactcgt 300  
 gatcattgag aaagtgtttg aaactttctc atgaagtgtg tatataatgg cgtgaaaaat 360  
 tcctttggaa aaatttatgt tcctttcatt tttaccaa atgcataattt cagcatggat 420  
 gtgaaaagca ttaaaattat aactttgtgt acaagatgaa aataattcac acactcgag 479

&lt;210&gt; 895

&lt;211&gt; 386

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 895

gaattcgcgg ccgcgtcgac atcaaaaatg agggatgtaa gtttcaatgt gagtatttct 60  
 gaatagtttt ttcaaatgc agccaagtca gtaatactct gttgtaactt tagatagggt 120  
 atctatgaat taaaaatccc tgaatgtgac attactctaa aatcttgcat cttgaactgg 180  
 agagcactgt tgttttctgg taggaggtcc atgaagcatg cattagaggt agcttctttt 240  
 cctggaggaa gatttgatg agtatgtatt ttttatattg aaacagacat gaatatattt 300  
 tggagatgaa agtaaaacta gcaggaaatg taagaaaaaa cttaaaattg ctttaaagta 360  
 taatgtcgaa tccccgaat ctcgag 386

&lt;210&gt; 896

&lt;211&gt; 202

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (40) .. (41)

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (62)

&lt;400&gt; 896

```

gaattcgcgg ccgcgtcgac actttaacca gtagaacatn ncaaaaatga cactttgcta 60
tntttgggta caagccttga gcatgtcagg cagcttctac ttttgtaact ttgggagctc 120
tgagttgctg ccgtgcaaga agctgtcata ccttgctgga gagatgatgt ggagaggaag 180
agattccagg acagtactcg ag                                     202

```

&lt;210&gt; 897

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 897

```

gaattcgcgg ccgcgtcgac cacagacttc tccactgata tctatgtag tatttatcca 60
gcttcttact tggatatatgc acttggattt ttataaggta tctcaaactt aatatgtcca 120
aaactaaact tctgattctc tgtatacttc cagcttgctt ctccacagt gtttccaatc 180
tcagtaaatg gcaaccctat ccttctagtt ctttaggcca aaagcttgga atcactcttc 240
cttttctttc cccacatccc ctcgag                                     266

```

&lt;210&gt; 898

&lt;211&gt; 180

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 898

```

gaattcgcgg ccgcgtcgac cttgcattgc gtggttttag ggaagcaggg tctggctttt 60
aatatgaact gcaaaaagca gcttctcact gatatttttt tgttggtgtt tctggggggg 120
ttttttggtt tgtttttaat gcctttgagt gcatattttc ttctcgtct gaaactcgag 180

```

&lt;210&gt; 899

&lt;211&gt; 200

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 899

```

gaattcgcgg ccgcgtcgac atggggcact acactccagc ctgggtgaca gagcgagact 60
ccatctcaaa aataaaaaga gttgctagaa aaggtagaac ccacatttct ctggcttcca 120
aagcctgtgt tctttctgct gtattatgct tttttataac aaccaggcta atatatctta 180
aataccatcg tacactcgag                                     200

```

&lt;210&gt; 900

&lt;211&gt; 163

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 900

```

gaattcgcgg ccgcgtcgac cagaaagtgt agctctgaac aaggggacca ctatggctag 60
agagggccgt ggagctgagg gtgggatttt gttttgtttt gttttgtttt gttttgtttt 120
ttttgagaca aagtgttgct ctgtctccca agctggactc gag                                     163

```

&lt;210&gt; 901

&lt;211&gt; 186

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 901

```

gaattcgcgg ccgcgtcgac gtactgtaac atgaaagcgt tgctcgacta cttccgctg 60
attatcttct tctactttta taaaacgacc gatcctaaag atagtcaaca tcccccttc 120
caattggtgg gtagcgcagg aaatactgat caaaatcata ttctgttgct aacaggcgca 180

```

ctcgag

186

&lt;210&gt; 902

&lt;211&gt; 212

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 902

gaattcgcg cgcgctcgac ttcactctct tgatgctctg cattttctct cttaactcga 60  
cccacagtag accctcccac tcaaatctgc cccaatacc ctttgcaacc aatattaccg 120  
cactacactt tatcttccct aagggtttcc tgctcctcct ggtcttaggt gaggtcattt 180  
ctctgccagc ctttaaagtg gaagccctcg ag 212

&lt;210&gt; 903

&lt;211&gt; 192

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 903

gaattcgcg cgcgctcgac gtttattaaa aaaaaaaaaa gaagaagaaa gcttgcagag 60  
attattggct tcaggaaagt caagttaa atgcaaattt aatgaataat aggaaattac 120  
ttaaatatct ttaattttat aagcttcctt atgacagttc ttatccactg tattctttcg 180  
gttctcccta ta 192

&lt;210&gt; 904

&lt;211&gt; 196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 904

gaattcgcg cgcgctcgac tgtaaattga ggttcctcat ttccttatga ccaccaagat 60  
gcaccttttc ctattttgga ctctaattcc agcagctgtg tttaaaccctc ctggagattt 120  
acagaaatac gtcttgccat tctgtgttca ttcgccagat tcattgctag ttgggatata 180  
agcaagccga ctcgag 196

&lt;210&gt; 905

&lt;211&gt; 259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 905

gaattcgcg cgcgctcgac tttgtttcaa agacaattcg aattgccttc tgaaagtcta 60  
aatttgctag actaacattc agaattctcag tctggtctct ctttctagca atagctcctg 120  
ctttttctta catgagtact ggttcagat catctagatg cttttgtttt ctccatattg 180  
cttgggcatt cccttctgtg tctgcatgct gtttctctcc ctcagatgtt gtctcccaaa 240  
ctccataaaa agtctcgag 259

&lt;210&gt; 906

&lt;211&gt; 208

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 906

gaattcgcg cgcgctcgac cctagctccc ccgaaatttt aagactattt acctagattc 60  
ggagatgggc ttggagagtt ccaaaagggg tgtgtgtgtg tctgtgtgtg tgtctgtgtg 120  
tgtgtctgtg tgtgtgtctg tgtgtgtgtc tgtgtgtcta atatttagac taaaccatgg 180  
taaatgtacg caccagtaaa acctcgag 208

&lt;210&gt; 907

&lt;211&gt; 212

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 907

```

gaattcgcg cgcgctcgac ctaccagtgg acattttgag aatattgcag ttgtttttct 60
tctgaaagag taaaccaatt tggttactca ttttaccat ttggttttga ttttgcaagt 120
ggttacaact catgagagga ttcttatttc tgatcaatat attgtgtttt tggaaaggac 180
ttctgggaaa taattatgat gaagccctcg ag 212

```

&lt;210&gt; 908

&lt;211&gt; 137

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 908

```

gaattcgcg cgcgctcgac ggagaagatt aatagatggg acagaaactg cctttgatta 60
accatcagg tctaggggtt gtgataggca caacatatat attctacttt tggctattga 120
ggggggtcaa cctcgag 137

```

&lt;210&gt; 909

&lt;211&gt; 209

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 909

```

gaattcgcg cgcgctcgac taaattcaca agaaaaatac ttgctttttc tcccttttaa 60
tacgaatctt aactgctggt atccttaaaa cctctgaagt tgatgaatga cttttttaaa 120
aaatgaattt atgggttctt aacatgtatt tgtgttttat tttagtcctt atttgtttta 180
gtgttcacat ctgcccagg ctactcgag 209

```

&lt;210&gt; 910

&lt;211&gt; 392

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 910

```

gaattcgcg cgcgctcgac atactttttc cttcttatga cgtttttaac catttggtca 60
gttattttaa aaagtccaag tgaggtttta atcctattta aatctaccac atataatctg 120
gtgtgtgtat gtatttgtat gtctcattgt gttttatgaa taaagatata tcctcatctt 180
tgtaagcaa actacaaagt attagataat actttctcta gttttctaag catccattaa 240
taatttatag tatggacatg aagatgtttt tctgtgcttt tgtgtgtgtt gttgtgtttt 300
gtttttttga gacaagggtc ctctctgtca cccaggctgg agtgcagtgg caggatcatg 360
gcctactgca gcctccacca gccaggctcg ag 392

```

&lt;210&gt; 911

&lt;211&gt; 192

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 911

```

gaattcgcg cgcgctcgac gagacacata accttctaata tcttagaaga gtattttctt 60
tggcaccaca caagccctat atagcaggaa ggaaatatga ggttcagaaa gagtctagtc 120
tcagtcttac ctttaacttc actgtgtgac cctggaaaaa tatctttctt ctctactccc 180
actcaactcg ag 192

```

&lt;210&gt; 912

&lt;211&gt; 226

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 912  
 gaattcgagg cgcgctcgac ctgagaactt aatagtttta agtctgggtg cacttctctg 60  
 gacaaaataa tcttaaatct ttataatctt tcaacttaag tccttttttt ataagctttg 120  
 ttttatttcc ttactttact tttgatcctt cccagtcctt cagaatttta acttctatat 180  
 catggtttta ctctgccaat tcccatatta ccttcccttc ctcgag 226

<210> 913  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<400> 913  
 gaattcgagg cgcgctcgac cggagtctcg gggctcgcgtg cacctggggc gccagggagg 60  
 ctccagtgcc cgggagaaag gcaagaaaac tgaggcacag agagattgtc acacagccag 120  
 ttgtagtttta caaagtttta ttccagaagg aaaaaagcca cttcacctag aaattttgca 180  
 aacaaatcaa cttttactct gtgagtaatc cagggcctat caagactaca ttttagttga 240  
 ctgcaaggcc tctgaggcac ggggaattcac agctgagttc ttggagaagg tccttgagcc 300  
 atctggatgg cggacagtct ggcacatgat gtgctcaagg tgctgcttga ggccacagat 360  
 gtggacattt cagccttgaa ggcagtgggt cagcttgctg agccatacct ctgtgaatct 420  
 tgagcgagta ctttcacctt ggagtgtgtg aaagagctcc tcgag 465

<210> 914  
 <211> 172  
 <212> DNA  
 <213> Homo sapiens

<400> 914  
 gaattcgagg cgcgctcgac ctcaactttc agatcttgaa aggtttgaga acttggaac 60  
 aaagtaaaact ataaacttgt acaaattggt tttaaaaaaa attgctgcca cttttttttc 120  
 ctgtttttgt ttctgttttg tagccttgac attcaccac gcaaccctcg ag 172

<210> 915  
 <211> 185  
 <212> DNA  
 <213> Homo sapiens

<400> 915  
 gaattcgagg cgcgctcgac gtcctgccaa tttacagtga gcttaaagac cgatcacaga 60  
 aaaaaatgca gatgggtttca aacatctcct ttttcgccaat gtttgttatg tacttcttga 120  
 ctgccatttt tggctacttg acattctatg acaacgtgca gtccgacctc cttcacaaac 180  
 tcgag 185

<210> 916  
 <211> 219  
 <212> DNA  
 <213> Homo sapiens

<400> 916  
 gaattcgagg cgcgctcgac aaaatattct attgtaagtt tgttttatta atttattttg 60  
 tggattacag taatgctttt gttggcctgt tgtatgacaa actatttaaa gggtcacatt 120  
 ttgatttgta tttgccaaca agcccttttg cttgttaaag ctatagctaa ctctcaggag 180  
 ataattgcag ttctactctt agaggatggc tgccctcgag 219

<210> 917  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 917  
 gaattcgagg cgcgctcgac gaaatacagt gtatatatca ttgtatagta cataaagcac 60

```

tgaatgatac atttataatc agaattttta aaaaatcctt agatttatag tcagaaaaaa 120
agacttgtag agattagaaa gattatggat tactttgagg ctatgaaaat tgataattct 180
ttaatttcaa cagtcagata tatgttagtg tttagagtac ttttcagctt tctattagaa 240
catccgaaa gtaggggaca gaagctcgag 270

```

```

<210> 918
<211> 154
<212> DNA
<213> Homo sapiens

```

```

<400> 918
gaattcgcg cgcgctcgac tgtaatttag tttctgcag ttccatttag gtatcatttt 60
aatacttaga aaggaaacaca aagatttttt tcaaatgaga aaactttcag cttttatcaa 120
atattttattc attcaaacaa cagtagctct cgag 154

```

```

<210> 919
<211> 210
<212> DNA
<213> Homo sapiens

```

```

<400> 919
gaattcgcg cgcgctcgac gacagggctt tgctgtgta ctcaggctga tctcaaactc 60
ctggcctcaa gcttctctcc accttgacct cccaaagttc tctaataca tttattgaaa 120
ggctttacct gttgaaacac ctaggtagct atattgaaaa tcaatccatc atatatgcat 180
gggtctaaaa ttttgaactg tattctcgag 210

```

```

<210> 920
<211> 551
<212> DNA
<213> Homo sapiens

```

```

<400> 920
gaattcgcg cgcgctcgac gatgttttca acgttctttt gtcttttgc gaagtcagga 60
tagattcaag acataatctc ttgtaagatc taaatagagc aaatgtaaac aaaagtgcac 120
ttttgtattc ttgttaattt tagatgcttt cctagcttac aaaaagttct atttttgggt 180
taaaaaatcaa tcaactttct gatatttccc cttctgcaat gttattgttc ataagaaaa 240
acgagctgaa aatggaaatc tgcagttggt tcagttgtct tgaatttctt tcagtggcca 300
catcatttcc acgttttcca catccgggag gaagcctgga ctgtgcagcc ttcgggcacc 360
cggcacagac actgtgctgg caggagcttc agacacgcca agtggatgga tttggattga 420
acgcatatga aacaggagac gggttctcat gtgagatcaa agctcctcca aagcctgttc 480
aagctctaag cgattctcaa atgttaccat ttattaaagg taaactacac ctgttgaagc 540
ccgcgctcga g 551

```

```

<210> 921
<211> 164
<212> DNA
<213> Homo sapiens

```

```

<400> 921
gaattcgcg cgcgctcgac ctgccccggt gtgtgatgtt cccctccctg tgteccatag 60
ttctcattga aacaatgatt ctcttaaca actctcaaat ctgcccactt ggctacatgc 120
ttttgcaata ttccagacca aattaccatg atctgtcact cgag 164

```

```

<210> 922
<211> 194
<212> DNA
<213> Homo sapiens

```

```

<400> 922
gaattcgcg cgcgctcgac ctctgtctta aaaaaaaaa aaaaaaaaa aaaaagttaa 60

```

tggatctttt gatacagatt gaaaaagcct ttattcaaca cctaaaatgt gtcagggtgt 120  
ttggctttgt actaacatgg ttactgatta ttatggtttt atccctttta aaatacaaaag 180  
aagcaggctct cgag 194

<210> 923  
<211> 200  
<212> DNA  
<213> Homo sapiens

<400> 923  
gaattcgagg ccgcgtcgac gagatgcttg aggtgcagtg ttggggatcc agagccatgt 60  
cggacctgtc actactgggc ctgattgggg gcctgactct cttactgctg ctgacgctgc 120  
tggcctttgc cgggtactca gggctactgg ctgggggtga agtgagtgtc gggcaccccc 180  
ccatccgcaa cgtactcgag 200

<210> 924  
<211> 158  
<212> DNA  
<213> Homo sapiens

<400> 924  
gaattcgagg ccgcgtcgac ctactacctc accgagaact cctccaccac tgactgttca 60  
ggatccctta tgcctcgag tttgtccctt agaagaatta tctccagata gtattgatgc 120  
acatacgttt gatcttgaaa ctatcccca tcctcgag 158

<210> 925  
<211> 187  
<212> DNA  
<213> Homo sapiens

<400> 925  
gaattcgagg ccgcgtcgac gtgtcacagt catcaacatt ttttgtgtaa gcagaaactt 60  
tattgtgtgc tagttactta atatcagtgt ttattccatt ttcttcatta tcatattcca 120  
tattataata attagatgtg aagacatgca ctttcgtgta ttgagtattt ataggatcag 180  
tctcgag 187

<210> 926  
<211> 164  
<212> DNA  
<213> Homo sapiens

<400> 926  
gaattcgagg ccgcgtcgac aaatagtatt ttaaaagaga ttattggtaa cgtgcttctg 60  
gtttttaaaa ttcctggaga aatcatatgc tgtgatcaac catagcgctg tttttttttt 120  
aatagcagga aatgtatata agtctattac cgcacttact cgag 164

<210> 927  
<211> 192  
<212> DNA  
<213> Homo sapiens

<400> 927  
gaattcgagg ccgcgtcgac cttgcttcag aaattgaaat ctgaaggacg tcgggtgctg 60  
atcttatcac agatgattct tatgttgac attttagaga tgttcttgaa ctccattac 120  
ctcacctatg taagaatcga tgaaaatgcc agcagtgagc aacggcagga actgatgagg 180  
agtcccctcg ag 192

<210> 928  
<211> 167  
<212> DNA

<213> Homo sapiens

<400> 928

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gaattcgcgg cgcgctcgac cctaaaccgt cgattgaatt ctagacctgc ctcgagcctg 60
accaacatgg tgaaatgctc tctctcctaa aaaaaaaaaa tttatatata tatatcagcc 120
aggtgtgggtg gcacgtgcct gtgatccag ctacgctgga gctcgag 167
```

<210> 929

<211> 144

<212> DNA

<213> Homo sapiens

<400> 929

```
gaattcgcgg cgcgctcgac acctcctcca tttaaataaa ctgggtgactt tccttttatt 60
ttttaaaagt ggaaacccgt tgtgtgcctc tcgatttaag ggtttctgat gacattattc 120
ttaagaccag cattgatcct cgag 144
```

<210> 930

<211> 213

<212> DNA

<213> Homo sapiens

<400> 930

```
gaattcgcgg cgcgctcgac agtttttgca tgtaaagttg ttcatagtag ccttgaatga 60
tattttgtct ttcgggtggg tcaggtgtaa tagctcccat tttgtttatc ttttcaaaga 120
accagctttt tttgtttcat ttatcttttc tattttttta tttttgtttc aatttcattt 180
agttctgctc tgatgagaat gctacttctc gag 213
```

<210> 931

<211> 252

<212> DNA

<213> Homo sapiens

<400> 931

```
gaattcgcgg cgcgctcgac cctaaaccgt caattaatat tactgcctac ttggagcttc 60
aagtctaatt tggggaaaat aaagagcaac agaaaagaga acacttggtc caacacataa 120
aaagggtgat aatatatttag agagtttggg tagacttgaa tattatttgt ttagaacctg 180
aatctcaagt ctaagtctgt aacaagattt ctcttcacaga tgatgaggag tctgatgagg 240
agagctctcg ag 252
```

<210> 932

<211> 437

<212> DNA

<213> Homo sapiens

<400> 932

```
gaattcgcgg cgcgctcgac gcggggcggc cggcatggag ctcccggagg cgcggcaggg 60
tcaggagctc ggtggcatgg cggcgggtggc tgccccgatt tcctccagct gccactcctt 120
gcttcgtgtc cccggtccct agacgcctcg tctcctcccg tgtccctctt cccatggagt 180
cagtacggat cgaacagatg ctgagcttgc ccgccgaggt cagcagcgac aacttgagg 240
cggcggagcg agggggcatca gcggcccaag tagacatggg cccccacca aagggtggctg 300
cagagggccc cgcacctcta ccgacgcggg agccagagca agagcagtct ccggggacct 360
caacgccgga gagcaaagtc ctgctcacgc aggcagacgc cttggcgtcc cgggggcgaa 420
tccgtgaagc cctcgag 437
```

<210> 933

<211> 137

<212> DNA

<213> Homo sapiens

&lt;400&gt; 933

gaattcgcgg ccgcgtcgac ctataagctg ttgcaacttt aggttccctca atggatacaa 60  
 aatttgcat tatactggct ctatcttgca caagtatgat gtgccatcaa atgcagaatt 120  
 atagcaggaa tctcgag 137

&lt;210&gt; 934

&lt;211&gt; 190

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 934

gaattcgcgg ccgcgtcgac gttttgtaat aaaaattccc aaccatataat gcacttatag 60  
 ggaaacaaag gacccatcgc aaatgttttc catgctgac tcctaaagtgg tgagtttatg 120  
 tgtgattttt attttgttta tgctcttcg tattttccga atttcataca ataaatatct 180  
 gttactcgag 190

&lt;210&gt; 935

&lt;211&gt; 169

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 935

gaattcgcgg ccgcgtcgac aggtccattt catctaagtt gtcacattta tgtgtgtaga 60  
 atttttcata gcattcacct tacttacctt tttaatgcca gtgggggttg caatgatagt 120  
 ctctgatatt gcagatttta gtgatgtgtg tcttcccccc ccgctcgag 169

&lt;210&gt; 936

&lt;211&gt; 159

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 936

gaattcgcgg ccgcgtcgac cttttccac cgccattcc cttcattttt gcccctcttt 60  
 gcctgggtgct gaatgggctg ctcttcttcc accatcatca gcttcattgt tttctttttt 120  
 ctttttaaaa ctgtattttc tttgtgcggc actctcgag 159

&lt;210&gt; 937

&lt;211&gt; 234

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 937

gaattcgcgg ccgcgtcgac atattgaaaa attcagggaa tttttaaaat ttatttattt 60  
 cctcaaatat atttaaatat tagttctgtt atcttgtttt ggctttcttt tttagggtacc 120  
 ccaatgatgc atatgttgac tgtgctgtgg ttgtttcttg gcgattttat tcttaccagt 180  
 cactgttttc agtgttgtct tttctttact caacattctg caaagtcact cgag 234

&lt;210&gt; 938

&lt;211&gt; 152

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 938

gaattcgcgg ccgcgtcgac atattatttt acatcattgt ttctgtcctt tttattttca 60  
 tttgtgtct ctaatttaga cccttattac catacacctg gtttatgttc acagtctcct 120  
 aaatgatctc cttcataccg ctagtactcg ag 152

&lt;210&gt; 939

&lt;211&gt; 275

&lt;212&gt; DNA

<213> Homo sapiens

<400> 939

```
gaattcgcg cgcgctcgac catagccttc ctctgtcct actcatgaga ctgcctccat 60
ttcttccttc tgcaacctg ctctatcag ctgaacctt ctttcggagt gttagttagt 120
acccgtctct ccccagcccc tcagctggtg ggctgggtg tgcagcggc aaatggggct 180
ctggttccaa tgggccactc tcctctctct cttgttcct gtgcagaaaa cctttgcttc 240
actccactgc cctctctagt tcccgatccc tcgag 275
```

<210> 940

<211> 246

<212> DNA

<213> Homo sapiens

<400> 940

```
gaattcgcg cgcgctcgac caacaacaaa aaaaagactt tattctctgt tgcagtgtg 60
tggttaacct tttattgcat ttaatttcta caggtgtag tctactatta tttttgttcc 120
agtatctcat caagtcaa atagcacagag taagaatttc aaagctagag agggctgaca 180
ataatagaaa acagaaacat actcaatata tactcctctc tctactatgaa gctggggcta 240
ctcgag 246
```

<210> 941

<211> 168

<212> DNA

<213> Homo sapiens

<400> 941

```
gaattcgcg cgcgctcgac atttaattaa tcacttcaag acatttttga tattacagct 60
tttgtcctta ggtggagctg ttaaagttaa ataagtgtga atatctgtca aatacagttt 120
ttgcaagagt gcatgtacat tttatatatt gtaagaaaag ctctcgag 168
```

<210> 942

<211> 205

<212> DNA

<213> Homo sapiens

<400> 942

```
gaattcgcg cgcgctcgac gaagccttct gtaccatttt acgaatttct gtcttcataa 60
tataagttaa aatactgtca tttcaatttt ctgctttaa ttgttttaa taagcattcc 120
aaagtgtac agacttaagc ttttaataca tcagtcattc agttgataga caaagtttagc 180
gatgctttat gctaggatac tcgag 205
```

<210> 943

<211> 188

<212> DNA

<213> Homo sapiens

<400> 943

```
gaattcgcg cgcgctcgac ctgagcattc cagccgggcc atcctgtgaa aatgatgtta 60
ctttattttt cagttttttt cttctcetta tccaggacac atccccacca gacaccagct 120
cctctgcccc atccaggcct ctatcccca ccagtgcca tgtctccagg acagccactc 180
acctcgag 188
```

<210> 944

<211> 241

<212> DNA

<213> Homo sapiens

<400> 944

```
gaattcgcg cgcgctcgac gaatcatata gtatatagac ttttcagatt ggcttcttcc 60
```

acttagtgac atttatttaa atttcctaatt gtctttttat agtttgatag ctttttttta 120  
 ttcttttaatt tttttttttc ctgctgcctc tctaattgca gaaagctcat ttatttttag 180  
 cacatttcat tttgatattc cattatctgg gtgtaccaga gtttctccat atcacctcga 240  
 g 241

<210> 945

<211> 355

<212> DNA

<213> Homo sapiens

<400> 945

gaattcgcg cgcgctcgac caggactac catgtttctg cattggctag tgggaatggt 60  
 atatgtcttc tactttgcct ctttcattct actactgaga gaggtacttc gacctggtgt 120  
 cctgtgggtt ctaaggaatt tgaatgatcc agatttcaat ccagtacagg aaatgatcca 180  
 tttgccaata tataggcatc tccgaagatt tattttgtca gtgattgtct ttggctccat 240  
 tgcctcctg atgctttggc ttcctatacg tataattaag agtgtgctgc ctaattttct 300  
 tccatacaat gtcagtctct acagtgatgc tccagtgagt gaactgtccc tcgag 355

<210> 946

<211> 187

<212> DNA

<213> Homo sapiens

<400> 946

gaattcgcg cgcgctcgac gggaagctta gagcaggaat tcccttaaga cgggtgtgata 60  
 gactctttta aagaaaaaat attcagtcct taacactcgt taaagcatgc aaaggaagac 120  
 tttattcagg atcatcgtga taggtattgg aagcacagca gtgagatttt gcaatggggc 180  
 actcgag 187

<210> 947

<211> 298

<212> DNA

<213> Homo sapiens

<400> 947

gaattcgcg cgcgctcgac ggaaaagaat cttaatgcag ctatcaagac ccagttggat 60  
 gtgttttagct ttgtcactac acttaaggag ggcatTTTT attttaaac aaaaggggac 120  
 agaaagctta gtgaggagtt tagaagccct accctttcaa gaagtgttga tgggaattgaa 180  
 gacaaaccca ggagaaggga acacgagggt gaggagaaca ggggtggcctt cagacaccca 240  
 ggccaacaca tgtcaagggt tagacttact ggaaaactcc agagcgtga acctcgag 298

<210> 948

<211> 214

<212> DNA

<213> Homo sapiens

<400> 948

gaattcgcg cgcgctcgac aaacaaaaca aatttcctac cttaggatcc aaaagatatt 60  
 atcctatatt gtctcctaaa agttttatag cctagccttt tacatttagg ttcttaattc 120  
 ttaatccacc tgggaataagt ttttgatat ttttaaaagt agaggtttta tctcattttt 180  
 cccgatagat atgcaattat ccctgtacct cgag 214

<210> 949

<211> 216

<212> DNA

<213> Homo sapiens

<400> 949

gaattcgcg cgcgctcgac tgcagattgg ctccgagccc ctgacacccat gtatttggtg 60  
 gactttgtga agccagaatt tctcttgctt aggacacttg ctcgatgcct gattttgtgg 120

gatgatattt taccaaattc caagtgggtt gacagcaatg ttcttcaaata tataagagaa 180  
aatagtatct ctctcagtga aatcgaatgt ctcgag 216

<210> 950

<211> 272

<212> DNA

<213> Homo sapiens

<400> 950

gaattcgcgg ccgcgtcgac agtatctgtt tcttttaaata ggagcaggac tttaaatga 60  
ttacaaaatc attctatatt actttttttt tattccagcc ctttacagct gtctcaccta 120  
ttcataattc agtagcagct ttttctttta gatactcacc ttttttgcat tcatgtttca 180  
ctagtttatg cagtaattta gataatttag ttactagcgt gagtacacct accacaaaaca 240  
acatgggaat aaacaaaacc gaatcactcg ag 272

<210> 951

<211> 224

<212> DNA

<213> Homo sapiens

<400> 951

gaattcgcgg ccgcgtcgac atataagagc acgttgtaaa cttgaaagag acaaaggcac 60  
aaatgtgggt gttgattaat ttgactgctt ctcgttgctc gtcacctcca tgccatgcac 120  
tgtgcttgct aattgcttta tgggggcatt ctcttattta tccccagcc ctgggaaata 180  
ggagctgtca ttatccttct cttctcgac aaggaaaact cgag 224

<210> 952

<211> 164

<212> DNA

<213> Homo sapiens

<400> 952

gaattcgcgg ccgcgtcgac gggggagcag gataaaagcg gtctttcagt ttttattata 60  
tgtcattctc ctatgttttt caaatcatta ttctatgtct cttctcagta aggcctatcc 120  
tgaccaactc atctaaaatt acaacttccc accacactct cgag 164

<210> 953

<211> 210

<212> DNA

<213> Homo sapiens

<400> 953

gaattcgcgg ccgcgtcgac gcattttgtg ttttctacg tggctcattt cagccaggta 60  
tagttttctg tgttcacctg gtatttctta cagacaaaaa tcatgaaaaa gcgaatgcaa 120  
aatttcagta tgttcaaatt gtttcttagt atatcggtgg ctttggaatg catttgcat 180  
ctcaaaacaa gcttcacagc aaaactcgag 210

<210> 954

<211> 191

<212> DNA

<213> Homo sapiens

<400> 954

gaattcgcgg ccgcgtcgac ataaaattac gtcattattc atttggtcat tcattcaaca 60  
aatttttgat gaagtaaaat aatagtataa gcataacaac tgctatttat tgaacactta 120  
atatgtccca ggttctaata tacatacttt actggctgta tcctacacaa aacacacaa 180  
aagcactcga g 191

<210> 955

<211> 195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 955

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gaattcgcg cgcgctcgac atttcttatt agccaatatt tattaagcat ccgctgagaa 60
ctttcctgtg cattgggctt acgggaggat tttttttgct taagtgtgat tacactgcc 120
ttcttgaact tgtttctcac ttaggagaaa caatttgagg gtaatatgaa cagaatattt 180
gtgagcatac tcgag                                     195

```

&lt;210&gt; 956

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 956

```

gaattcgcg cgcgctcgac ctacttacta aattgagttt ttaaaaagac ttagtgtgac 60
at ttgacagt gtctttcaaa cgaacttctc taacaagttt atagttattt tcctgtttca 120
acactattag aagtcttata aattatgcta attagcatgg cagtcagtgt acacactctt 180
aacattgcc aagaactgtt gatttcgttt gagaaaaccc caggactcga g 231

```

&lt;210&gt; 957

&lt;211&gt; 214

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 957

```

gaattcgcg cgcgctcgac cgagatccac ggctgcatcc cctacgaacc ccatgaaatt 60
cctgaggaat aaagcaataa ttcggcatag acctgctctt gttaaagtaa ttttaatttc 120
gagcgtagcc ttcagcattg ccctgatatg tgggatggca atctcctata tgatatatcg 180
actggcacag gctgaggaaa gacaacagct cgag                                     214

```

&lt;210&gt; 958

&lt;211&gt; 183

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 958

```

gaattcgcg cgcgctcgac taattacctg aagctttagt aataaagaac taattttttt 60
tgtcagttac cacattttgt ttttagcttt aagaggttag tagtgcacaa tactgaggct 120
aaaggttaag caagatttcc aggtttacag agatattaat taatctggat gaggctttctc 180
gag                                     183

```

&lt;210&gt; 959

&lt;211&gt; 199

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 959

```

gaattcgcg cgcgctcgac atttgcggtg actgtggatt tctctctgcc tttggaacat 60
ttgtgcaagg atgagagggg atagtttaga tcctctaact gcataatgctg taggttataa 120
agccacagta atgtgtttcc tttgcagttg tgccttctat tccttgctcc agactagctc 180
tgatagggaa gctctcgag                                     199

```

&lt;210&gt; 960

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 960

```

gaattcgcg cgcgctcgac ctttttttaat actatgaaga aaccaaggca gaattacgac 60

```

ctctggttct tttctttttt ttctttttta gacagggtgc gttctgtcgc cctagctgga 120  
gtgcagcggt gtgacacag cacactgcca cctccacctt tgaggctcaa gcagtcctcc 180  
catctcaagc tcgag 195

<210> 961  
<211> 161  
<212> DNA  
<213> Homo sapiens

<400> 961  
gaattcgcg cgcgctcgac ctcaaattta aaaaaaaaaa aaagaagaag aagaaaacta 60  
gtgggaaaaa agtgagagga atactttttt gaaattggta tcggaaggaa ctggagaaga 120  
gaaaacaaca gtgccaaatg agaaaagaac agttcctcga g 161

<210> 962  
<211> 252  
<212> DNA  
<213> Homo sapiens

<400> 962  
gaattcgcg cgcgctcgac caaagagtct tgaattcttt tgttttccca gtaccaaatt 60  
tacttttagtt ttatctatga aatgggtgata aactttcggt gtaagtatca tttgatagca 120  
ttgaagtatt taactttttt gttggagcca gagtctcagt ctagggttga gtatagtggc 180  
gccaccggct ctatcttagc tcaactgcaac ctccatctcc cagggttcaag cagttctcat 240  
gccttactcg ag 252

<210> 963  
<211> 153  
<212> DNA  
<213> Homo sapiens

<400> 963  
gaattcgcg cgcgctcgac tgctttgtgg acacagattt tcaggggagat ttaggggaga 60  
gaaacttacg agtgaatgag atactttatt ctaaacagtt tgaatgtcat tgtgattttt 120  
ttgtctttag ttgatgatgg tgaggctctc gag 153

<210> 964  
<211> 216  
<212> DNA  
<213> Homo sapiens

<400> 964  
gaattcgcg cgcgctcgac gccaatctct ttttttttca gggccaattc ttaatacatt 60  
ttaaggattt gtgaacagat gggtgcact gcatttgtgt tgatcatgat gttctattct 120  
agacaactaa gaatgtcaaa aagcttccta tcttatgaca actccagtc agtgatggcg 180  
gctacttgga gcaactgggt agaaagaaa ctcgag 216

<210> 965  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 965  
gaattcgcg cgcgctcgac ccctaaacat gttaccaggt cttatccatt ccccgttaat 60  
ttgcaccacc cccaaacact acattcgctt tggtcacccc tttatccctg agagacgtcg 120  
aaggccctct ctgcctgatg gcacattcag ctctgttaag aaggatgtgc tgtgtttttg 180  
tgtgtgtggt gtgtttatgt gtgtgtgctt tattttttta agcctaagat tccagctcga 240  
g 241

<210> 966

<211> 252  
 <212> DNA  
 <213> Homo sapiens

<400> 966  
 gaattcgcg cgcgctcgac ggaaaaggaa ttctccaaaa aggtgaccca gagcatttgt 60  
 tttgcaccag ctttgccctgc ccaactgagtt cctttgacca gggttgcctg taaatcttcc 120  
 agggagattt caacacttgt ttgtcttaaa tactttctgc tatcatctca ttgccatcca 180  
 ctcttcttcc agggctctgga tatattttgg aaagggtatt agatgaaact ctattttgct 240  
 gtggtactcg ag 252

<210> 967  
 <211> 140  
 <212> DNA  
 <213> Homo sapiens

<400> 967  
 gaattcgcg cgcgctcgac atagctttgt agagtgcatt cgactgttaa agtgggtgtcc 60  
 tgccccagat tgccaccatg ttgttaaagt ccaatatact gatgtctaac ctggttcgctg 120  
 caaatgtggg caatctcgag 140

<210> 968  
 <211> 180  
 <212> DNA  
 <213> Homo sapiens

<400> 968  
 gaattcgcg cgcgctcgac attaattatt gctatgtctt tttacttgct ttattttcta 60  
 tcttcatgga ttaatttttt ccaaatgatt ccagaatctg ccacacacct accattcatt 120  
 ttttccacc aatgtctcag ttgtgtcagg ccatctgtcc attccccgt caccctcgag 180

<210> 969  
 <211> 475  
 <212> DNA  
 <213> Homo sapiens

<400> 969  
 gaattcgcg cgcgctcgac atcctactat gttgacagac atgatgaaag ggaatgtaac 60  
 aaatgtctc cctatgatc ttattgggtg atggatcaac atgacattct caggctttgt 120  
 cacaaccaag gtcccatttc cactgaccct ccgttttaag cctatgttac agcaaggaat 180  
 cgagctactc acattagatg catcctgggt gagttctgca tcctggtact tcctcaatgt 240  
 atttgggctt cggagcattt actctctgat tctgggcca gataatgccg ctgaccaatc 300  
 acgaatgatg caggagcaga tgacgggagc agccatggcc atgcccgag acacaaacaa 360  
 agctttcaag acagagtggg aagctttgga gctgacggat caccagtggg cactagatga 420  
 tgtcgaagaa gagctcatgg ccaaagacct ccacttcgaa ggcatgttcc tcgag 475

<210> 970  
 <211> 133  
 <212> DNA  
 <213> Homo sapiens

<400> 970  
 gaattcgcg cgcgctcgac ctccaatcct tcctatgcat ttccctctct tcctcctact 60  
 atacaggtgt ccctgccctg ccagccact gggaacttc ccccatctcc ctatacctcc 120  
 aaacactctc gag 133

<210> 971  
 <211> 132  
 <212> DNA  
 <213> Homo sapiens

<400> 971  
gaattcgcgg ccgcgctcgac ctgatttttc ctectacata gttgtatggt gttatttttag 60  
cttgccttttt tatgacagtt tcaggcacat tttatatggt aattaagcat gcatatagcc 120  
agctttctcgc ag 132

<210> 972  
<211> 188  
<212> DNA  
<213> Homo sapiens

<400> 972  
gaattcgcgg ccgcgctcgac tctgacaatc agtttatgtg aatacatggt ttatggatta 60  
aaatattaga ttattattat atcctctaaa tgaattggct tgttatcggt atgaaatggc 120  
ccccctttatc cttagtaatt tttttttggt ctaaaatgtc ctttgggtatt gatgcagccg 180  
tgctcgag 188

<210> 973  
<211> 156  
<212> DNA  
<213> Homo sapiens

<400> 973  
gaattcgcgg ccgcgctcgac gtgagatgtg agattgaaaa agtgtaagat gtcagttaag 60  
attacaataa aaactggaag tatattcttt tttcttttat cgttattata tttatatttt 120  
ttcaagacag ggtcttgctc tgtccccaga ctcgag 156

<210> 974  
<211> 189  
<212> DNA  
<213> Homo sapiens

<400> 974  
gaattcgcgg ccgcgctcgac atctacctca gttaaacagt tgggtgctat tactaagtct 60  
gtcaaattaa attggaaaaa gtaaccaaac agtgagatac aactccacat gaaacttgaa 120  
attgtaattt ccggtttattt aatgatattt ttattttatt gtgcctttta tgttgaacct 180  
cttctcgag 189

<210> 975  
<211> 175  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (56)

<220>  
<221> unsure  
<222> (82)

<400> 975  
gaattcgcgg ccgcgctcgac ttattgtatg atttattttg gagttatatt ctgatnacag 60  
tgctccctct cccaaatagc antgattttt tccccctct aaaatgtata atctggtctc 120  
agggttgatt ctttgggtaca tttctctctt ctggatgccg tgcagcgac tcgag 175

<210> 976  
<211> 223  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 976

gaattcgcg cgcgctcgac aaattttagt tgtcccgga gttcttttgt atctgaaacc 60  
 tcagttgtca agcttgga tctgtacttt taaaatatcc tcaagcgatt ctgattacac 120  
 atcaggtttg gaagcacttg gcataaagaa cttccccac ccaattcaaa gaaatagtat 180  
 ttaagccctc ataatgtgca gtgtggttaa actgtgtctc gag 223

&lt;210&gt; 977

&lt;211&gt; 173

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 977

gaattcgcg cgcgctcgac gaaatgctct gctctcttct cttttccttg ctgtccctgg 60  
 ggctggagga gcacgggcct ccccgaggat gggcttcagc ctccctagac tcctgtctcc 120  
 tccaaggggc taggcctggg ggaccagaag caagagtccc aagcgtcctc gag 173

&lt;210&gt; 978

&lt;211&gt; 148

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 978

gaattcgcg cgcgctcgac attggtacca ggcacttaca aagctaaatt ttccgatgtt 60  
 cttttcacca gcatatcctc ttctcagttt attcattgat gcagaaagca ggcagctggt 120  
 caccgggtgt gctgacggcc aactcgag 148

&lt;210&gt; 979

&lt;211&gt; 224

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 979

gaattcgcg cgcgctcgac atttattaat ctaggaaagt taaatagtcc cttgaaacaa 60  
 aaatttttag ctgaatttat tgaaattata ttgtttaa gattacaatt tgaaaatact 120  
 ccgtgtttga tgtaggctg aacatgaaaa ctttttattt gaatcagatt tttttttttt 180  
 taagttttgt ccatcaacta aaggcacaaa cagacgacct cgag 224

&lt;210&gt; 980

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 980

gaattcgcg cgcgctcgac cgactttatt aaatctatga aaaatattta tattattgga 60  
 ttattatggg cttgctcgac atggactatg gcggatacag tcgtaactga taaagcaaca 120  
 acggtacaac tcgag 135

&lt;210&gt; 981

&lt;211&gt; 234

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 981

gaattcgcg cgcgctcgac ttctagacct gcttctttta ggcatactat attcatgcta 60  
 ttaagggtaa ttgtgagat gcgagtaaat ttcttttct ctctctgttc atcacttgct 120  
 ctcttttctc ctatactgac caaaccaggc actgctttcg atctccgtgg ttcattta 180  
 ctcttttctg atttctcatt tccaaattct gctcacgacc cccacactct cgag 234

&lt;210&gt; 982

&lt;211&gt; 189

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 982

```

gaattcgcgg ccgcgtcgac ctctgacaaa tagctcagga tgagtgggaag aaaatgggct 60
ttgatgtctc tcacaactgc agtgggaatt ttagggagga caatttgcca agaagatggg 120
gcaggatttg aaaggatttg ggaggatggg gagtggtgtg cagagaaagt tgtaggaagc 180
gacctcgag                                     189

```

&lt;210&gt; 983

&lt;211&gt; 211

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 983

```

gaattcgcgg ccgcgtcgac ttgaattcta gacctgcctc gaaaagctgg agagctgaca 60
aggaaggttt cgagcgtttt gctggcaaag ggatttctta caacctccag gcatgcgtct 120
ttctgccctg ctggccttgg catccaaggt cactctgccc cccattacc gctatgggat 180
gagcccccca ggctctgatg gcagactcga g                                     211

```

&lt;210&gt; 984

&lt;211&gt; 185

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 984

```

gaattcgcgg ccgcgtcgac cgcatctgtc gagcaatgtt gacaatctca tcaaaagtga 60
tattcccact gtgtttaatg tttttctgtt tctttctgtc tcttggtgtt tccttgaggg 120
ctttgatgat cagggcagag gcagaaggca ccaccaagag acagaaagaa acagaaaaac 180
tcgag                                     185

```

&lt;210&gt; 985

&lt;211&gt; 291

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 985

```

gaattcgcgg ccgcgtcgac agaacctgga aaaattaacc acatgagata cgatacacta 60
ccccagatgt tgacgttggg aaatatccgt gctggcaaca aaatgattgt gatggaaacg 120
tgtgcaggct tgggtctggg tgcaatgatg gaacgaatgg gaggttttgg ctccattatt 180
cagctatacc ctggaggagg acctgttcgg gcagcaacag catgttttgg atttccaaa 240
tcttttctca gtggtcttta cgaattccct ctctacaaag tggcactcga g 291

```

&lt;210&gt; 986

&lt;211&gt; 152

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 986

```

gaattcgcgg ccgcgtcgac gaccacccag gtaatccaca agattcttaa ttatatctgc 60
aaagattcct ttttcaaagt agaccatctt tacagattct ggtgattagg atatggctat 120
atctttttat cttttgttgg gggaaatctg ag                                     152

```

&lt;210&gt; 987

&lt;211&gt; 235

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 987

```

gaattcgcgg ccgcgtcgac cattataggg tgactgtaag actcaaatag agccactgcg 60
cccagcctag gaagccctaa gttttaaaaa ctttttaaag tttaaattaa gcaaagagct 120

```

tcatcaaaac atttaaattc ggcaaaataag tgctattaca gagatgcata gatttgtttt 180  
tccttttctt accttccctc tcttctctct tccttccctt tcctccccc tcgag 235

<210> 988  
<211> 171  
<212> DNA  
<213> Homo sapiens

<400> 988  
gaattcgcg cgcgctcgac ttctattaat ctttaattccc ccattttgtt tctgtgatct 60  
gctatgacat tacaaaaaaa attggtttat ctttcttctt tcgttttcca gtgcctttat 120  
tgcattggaac agtatcccct gcacccacgc ttcaccccggt ttagtctcga g 171

<210> 989  
<211> 174  
<212> DNA  
<213> Homo sapiens

<400> 989  
gaattcgcg cgcgctcgac ctcaaaattt ttgttttttg ggctccggtt tggtagggg 60  
ggctgttttg agaccagtt gctcatgggt ttaattctga cacatttaag tgggtgtttg 120  
ttttgtttgt ttctgagggt tggggtgtgt ctctgttgcc caagctatct cgag 174

<210> 990  
<211> 207  
<212> DNA  
<213> Homo sapiens

<400> 990  
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cttccgactc agcctgtgct ttgcaactt atttgcttac ctattttctt tcccactcc 120  
tccatgactt tgtggaaggc aaggacttta tctcaggatt tctctatcac cagacctagc 180  
ttggggcagc aaagcaggct cctcgag 207

<210> 991  
<211> 169  
<212> DNA  
<213> Homo sapiens

<400> 991  
gaattcgcg cgcgctcgac attttgtgtt ttgttttca ttcattctca agtattttct 60  
aatctccctt gtgatttctt ctttgacccc ttgattgttt agaaatctgt taatttccac 120  
acatttgtaa atgttccaat ttttcttttg ttattgccag ctccctcgag 169

<210> 992  
<211> 181  
<212> DNA  
<213> Homo sapiens

<400> 992  
gaattcgcg cgcgctcgac cctaaaccgt cgactctagt cagaagttat ctgagcaaag 60  
agaaaataaa gcctggcgta gacagtccca tagaaaatag aatccatagc cactgggctg 120  
cccttcaatt tcccaattca ttccactaag tctcatgatg caaatctgtc actttctcga 180  
g 181

<210> 993  
<211> 355  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 993

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gaattcgcg cgcgctcgac gtggctctgt aatgctaaca agaagtctga aaaccctgcc 60
aagcgctgt actgcttttt tgcttctctt tttttctgtt ctggtccggg gatcccgagc 120
tgctctgag ctgtaccctg agaactcaga gcagttggag ctgatacaaa cccaggccac 180
aaaggcaggc ttctccggtg gcatgggtgg agactaccct aacagtgcc aagcaaagaa 240
attctacctc tgcttggttt ctgggccttc gacctttata ccagaggggc tgagtgaata 300
tcaggatgaa gttgaaccca gggagtctgt gttcaccaat gagagagtcc tcgag 355

```

&lt;210&gt; 994

&lt;211&gt; 249

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 994

```

gaattcgcg cgcgctcgac ctggaatggc tgggtaaaat tatttcatct ctgaaaaatc 60
aagaacaccc ttcatatacc attcttcgcc acttccctcc tccccaaacc ctaaaaataat 120
acaactcagg ccgggcacgg taaaaattaa tttaacacat cttttgataa tctcatcctt 180
ggtgttgaa aagacgggaa aatccaaaaa tgtctatctt gtgcccaaat gctcaagtta 240
atactcgag 249

```

&lt;210&gt; 995

&lt;211&gt; 346

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 995

```

gaattcgcg cgcgctcgac cttttctgct ctgttttgtt ttccctgcct gttgcgtgca 60
aggggaagtgc ttgtaaagtt ctgtgctacg agatttttaa aataaaaaatc gcttcgcagc 120
aggttctcac aaaataactg gtgctagctc aagaaatcat catctgacca tcagaaatct 180
tgactaaagg tgttgcatgg atttgggggt ctttcgggtt ttggttttgg gtctggcttt 240
tagcagggcc aatgtttccc acaccccggc ttcattgggt ctgctttgac ttctcaccaa 300
ggtgacgatg gtgtgcgtgg aaagagatga taccacccc ctcgag 346

```

&lt;210&gt; 996

&lt;211&gt; 147

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 996

```

gaattcgcg cgcgctcgac gctttgatgt atagattaca ggtttcatca accttccaaa 60
gctttcagcc attgtttctt caagtatttt gttttctac tctttctctt ctttctcttt 120
ctaattgctc ttaccctgat gctcgag 147

```

&lt;210&gt; 997

&lt;211&gt; 329

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 997

```

gaattcgcg cgcgctcgac aaattattaa gggttaagta aggagtttta aataccaata 60
aaatcttatt tataacacca aacctcagaa gtccttctc ttggcaatag ttttattgta 120
ttggtttaat ctgatatatta atcttctgta ttatagtaag ctgaaaccaa aattgagaca 180
tgattgtttt atgtttgttg ctattatttt tgaatttttt tttttttttt ttaagacaag 240
gtcttgctat gttgcccac tggcctcaaa ctctgagct caaagtgatc ctcccacatg 300
ctcctccac atcacatcac agtctcgag 329

```

&lt;210&gt; 998

&lt;211&gt; 293

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 998

```

gaattcgcgg cgcgctcgac atattttcta ataaatactt gagcggtttt tgtctggcag 60
gcttccaaat ttgccaaaat taagcggtca gtattttcaa cacatacgct ttttactggg 120
ttatactgaa ctatctgatg agaattcctg tggtcccaaa gcaactgatg tttacaggtc 180
ttgtgtttct cctcctcctt tctaaggatg agggaaatcca caacagactt tctctagaaa 240
acactaatga tggacaactt tttggtgtca tcaatgagtt ggctactetc gag 293

```

&lt;210&gt; 999

&lt;211&gt; 158

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 999

```

gaattcgcgg cgcgctcgac cttattcgct gaactcaggc atttccactt gcatgtccca 60
cagttgagtc aggaccata atttcttcct gcttcccat gctattcctt tccttattga 120
caaatgccat catcttttct ctcaactgccg cactcgag 158

```

&lt;210&gt; 1000

&lt;211&gt; 152

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1000

```

gaattcgcgg cgcgctcgac tttttaaatg aggttattta aatgttaaag aaagttttag 60
tggtcgcat attgggggta tcttcaactg catttgcagg aggttttcaa attaaagtgg 120
gtgcgagttt aattgacca acagcactcg ag 152

```

&lt;210&gt; 1001

&lt;211&gt; 196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1001

```

gtgactctca tctattaacc taagccagaa atcaaggagt catttttagat acttccttcc 60
actccttacc atctggtcag ttctaatga aatgatggtc attttcctaa tttttctact 120
tgtctctaaa tttactgcat atgattccat tcccttgat actgctagag tgaatagtca 180
cctcacgaac ctcgag 196

```

&lt;210&gt; 1002

&lt;211&gt; 311

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (280)

&lt;400&gt; 1002

```

gaattcgcgg cgcgctcgac aactttttca gcaactaaaa aagccacagg agttgaactg 60
ctaggattct gactatgctg tgggtgctag tgctcctact cctacctaca ttaaaatctg 120
ttttttgttc tcttgtaact agcctttacc ttctaacac agaggatctg tcaactgtggc 180
tctggcccaa acctgacctt cactctggaa cgagaacaga ggtttctacc cacaccgtcc 240
cctcgaagcc ggggacagcc tcaccttgct ggcctctcgn tggagcagtg ccctcaccaa 300
ctgtcctcga g 311

```

&lt;210&gt; 1003

&lt;211&gt; 208

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1003  
gaattcgcgg ccgcgtcgac gaggaatggt agtattctct tatgaaatag taagtttggt 60  
atcatttgca gttttctggt tatggtctgt cagagcagtg acttcagagg ggcaacctgg 120  
acagttgact gtcctcatca ccaaaaccaa actacacaca cacacacgtt cccaaactgc 180  
accaaggcac cccaaagcac cactcgag 208

<210> 1004  
<211> 223  
<212> DNA  
<213> Homo sapiens

<400> 1004  
gaattcgcgg ccgcgtcgac agtttttggg ctgtgaattt aatgttttag gaagttccca 60  
tttaagattc tttaaaatgg ttcttctgt tgtgctttta ttcctttata ttaaaatctt 120  
tgatttatct aaaattactt ttgtgaaaga gtggtatagt gagaatagct ttttagagaa 180  
aaccaaaaca aatggtttga atatttgtcc caacactctc gag 223

<210> 1005  
<211> 166  
<212> DNA  
<213> Homo sapiens

<400> 1005  
gaattcgcgg ccgcgtcgac tgggcattac tatgttagtt ggaataactg gactctttta 60  
cactcaacta attggcatca tcacagatac aacatctatt gaaaagatgt caaactgttg 120  
tgaagatata tcgaggcccc gaaagccatg gcagcagcac ctcgag 166

<210> 1006  
<211> 175  
<212> DNA  
<213> Homo sapiens

<400> 1006  
gaattcgcgg ccgcgtcgac gaacaacgtg ggctttcatg atgtatgtac ctttctcttt 60  
cttttgttgc atgtggggga cagtattgct tcaactaatg ttattactt taaaacacga 120  
aaggatagag gaagtaaacc aaaacagtcc acagtcttca aacaggaccc tcgag 175

<210> 1007  
<211> 191  
<212> DNA  
<213> Homo sapiens

<400> 1007  
gaattcgcgg ccgcgtcgac gggaaaacaa agaaacaaac tataaaagaa agcaaagaaa 60  
atctttgtga tttgggggtca gagataggac tccaaaaaca taagaaaaaa actggtaaac 120  
tgaataaatt gataaactgg acttcacaaa aattaaatac atttactatg aaaaaaacag 180  
tgctactcga g 191

<210> 1008  
<211> 190  
<212> DNA  
<213> Homo sapiens

<400> 1008  
gaattcgcgg ccgcgtcgac ccaggatttc aactatactc atccacagac ttttccatt 60  
gggtagaaat tgaaacagaa ctgacagaac caggatttga ataccagcct tttgactcca 120  
aatcagggac aagatgcagt tttgtatggt aattattttt attggttttg atattgtggc 180  
ccactcgag 190

<210> 1009

&lt;211&gt; 245

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1009

```

gaattcgcgg ccgcgctcgac ttcaatctct agagggtttgg cagtttcttt ttatcaaatt 60
cttcccttaa taagctgcag cctgtgaatc tcaaaataat ggaagtttta aaaacagaaa 120
gaaaaagatt tttattttta tttttttatt tttatttttt taagacaggg ccttgctctg 180
ttgccagga tggaatgcag tggcacaatc gcggctcgct gcggcctcaa tctctggggc 240
tcgag                                           245

```

&lt;210&gt; 1010

&lt;211&gt; 183

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1010

```

gaattcgcgg ccgcgctcgac tgaagttctg aaaaaattt taggagattc ctgctttcta 60
gggtgctgaa gaaagactac ttaaaatcac tatttaatag tacagtaaat aggagatacc 120
tgtattttga actttgcata aaattgatgt ttctttatgg ttaaatttag attaatactc 180
gag                                           183

```

&lt;210&gt; 1011

&lt;211&gt; 141

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1011

```

gaattcgcgg ccgcgctcgac ccagactctc atatccatgg ctttcttggc ttataaaaata 60
gtatacttac tgtgccttaa acagaacttg gatccctctc atttccacta cattctcctc 120
tgtctctgta aggacctcga g                                           141

```

&lt;210&gt; 1012

&lt;211&gt; 162

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1012

```

gaattcgcgg ccgcgctcgac cttgtatgtg tcatttgagt ggtttccaga ttggagcgag 60
gttattctga tctaaatgaa cagcattttt ttcccttagcc tctgtttgcc actctgggta 120
tctctcctat gggcaaagcc attagaaatg catccactcg ag                                           162

```

&lt;210&gt; 1013

&lt;211&gt; 217

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1013

```

gaattcgcgg ccgcgctcgac atctttttcc tgtggctgct tcaaaaactt tgtctttgag 60
caatattact attatgtgtc tagatatagt ttcttttttt atccagcttg ggattcttag 120
aaattcttca ttttgtagtt tgatgtcttt tgaaagtttt ggaaaattcc cagtcagaat 180
atcctcagat catgtttcta tccccaattc tctcgag                                           217

```

&lt;210&gt; 1014

&lt;211&gt; 265

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1014

```

gaattcgcgg ccgcgctcgac actgatatac gatagacagc acatatataa aacgtaaaat 60

```

```

ttgataagtt ttggcatatg tatgcacatg caaaaccatc accataatca agaccgataa 120
catacccatc atccataaaa gtctcttcct gtccctttgt attcccttat taagaaacta 180
ctaaatgttt aagtatttgt gctattttcc attcctatca gcagtacatg ataattctcc 240
ttgttcata tcgtctgagc tcgag                                     265

```

```

<210> 1015
<211> 127
<212> DNA
<213> Homo sapiens

```

```

<400> 1015
gaattcgcgg ccgcgctcgac caaggacttt cccattgca agtcttcagc agacgagcca 60
cacagttcca agtacatctt aagaagcaca ctctagatgc agaatgaaga ttcactatct 120
gctcgag                                     127

```

```

<210> 1016
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<400> 1016
gaattcgcgg ccgcgctcgac gcctggctag ttttaagggt ttttaacagg cattgagaca 60
tctataatgg tctgctgct tttggatctg actcaaacct agccctgcct tctatttttc 120
tttctttttt tttttttttt gaggcagtct tactgtatgg ccgaggctgg agtgcaagtgg 180
catgatcttg actcaatgca acctgtcttt cgggttcaag tgattctcga g          231

```

```

<210> 1017
<211> 209
<212> DNA
<213> Homo sapiens

```

```

<400> 1017
gaattcgcgg ccgcgctcgac agcttaatcc tttctagctt ctgattttaa gtgagagaca 60
tgagactctt cctttcactt gtatacttag gggccattgt cgggttattc attagcttaa 120
tttcaatatt gttgtgtctc aggagtagga atatccaaag agaggagaa agacttgggg 180
agcagctggg cagtggaaca actctcgag                                     209

```

```

<210> 1018
<211> 205
<212> DNA
<213> Homo sapiens

```

```

<400> 1018
gaattcgcgg ccgcgctcgac ataacccttt aatggctccc tatgccccag gattaagtcc 60
aaacaccatg gtgtggcatg tgagaaagtc ttctttgtc tggtttctgc agctcttcag 120
cttcactctt tgccactctg tcactctctg gtccccagt catgtcccat ggacacagtg 180
tcagtcata ccccaattc tcgag                                     205

```

```

<210> 1019
<211> 218
<212> DNA
<213> Homo sapiens

```

```

<400> 1019
gaattcgcgg ccgcgctcgac cttcatcccc accttcttc tcactcttc tacagtttga 60
tgctgctggg caatttcac cacttcttag gcttcagttc tcaaccatct actgatgatg 120
actcccaaact gtttatccct gcctgacta cctaccctgt atgtctttct gaataaacg 180
ctcttaatcc caactgttta ttatactcat ctctcgag                                     218

```

```

<210> 1020

```

&lt;211&gt; 259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1020

```

gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt ctagacctgc cattcaaccc 60
ccctcatcac actctcacac tttctgagct gagatccaca gtaaggaata cactgtttca 120
ttctcgccct aggcacatac tctcatccgc agctgaaatg cagtttcaga atgtgaatcc 180
ttatttcacg ttctgtgtgg tgatgttttc tgttttctct cttgcctcct cctcagcatt 240
ggctacacac ccactcgag                                     259

```

&lt;210&gt; 1021

&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1021

```

gaattcgcg cgcgctcgac gcccatagga gttgaaaaat cctgctgctc tcagctatat 60
ttttttctcc attatttata aatgtttgct tttaaactga ttttattttc cattctcccc 120
tggagttggg ccaggggaga gtgggggtggg aagacagatc tcgag                                     165

```

&lt;210&gt; 1022

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1022

```

gaattcgcg cgcgctcgac ttttaagttc tagagatcgg gtctcgttat gttgcctagg 60
ttgattttga actcctgggt ctgcctcagt cttccaaaat gttgggatta caggcatgag 120
ccaccttgcc cttcccgaat ctgccatatt gttttccgta atagctgcat catcttacat 180
gcccctgtgc tcgag                                     195

```

&lt;210&gt; 1023

&lt;211&gt; 143

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1023

```

gaattcgcg cgcgctcgac aatcattcca acaatatttc tgtgattgtc tgtaacgaac 60
tactttttct gatttttgat cagtgatctt tgactataat agaaaagaaa gtttaaatgt 120
tatggaaggt gctggggctc gag                                     143

```

&lt;210&gt; 1024

&lt;211&gt; 166

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1024

```

gaattcgcg cgcgctcgac caggaaagca ttgaattaaa ttatacagta ccattttctc 60
aggtattgag ctaaagagaa tggagctaaa attgccctgc tgtcttgtca ttacctatt 120
tctaattctg tcattttctt tccaaaaatc tcacgcatat ctcgag                                     166

```

&lt;210&gt; 1025

&lt;211&gt; 164

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1025

```

gaattcgcg cgcgctcgac attggaaata tcatccagac agaaagtcag caaacatctt 60
acttaatctg cagtacagac caaatggacc taatagacat ttacagaaca ttttatccaa 120

```

tggtctgcaga gtacacattc ttcagctcat ggatcattct cgag 164

<210> 1026

<211> 139

<212> DNA

<213> Homo sapiens

<400> 1026

gaattcgcg cgcgctcgac tgacattatt atcaattaac attttacttc cttctagctc 60  
tctacatttt cttttctca tctcataaat ctcattcctt atgatttttt ggtggggatg 120  
tgttacttac ggactcgag 139

<210> 1027

<211> 174

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (42)

<220>

<221> unsure

<222> (56)..(57)

<220>

<221> unsure

<222> (61)

<220>

<221> unsure

<222> (64)

<400> 1027

gaattcgcg cgcgctcgac caaataccct ggttggettg tnacaagaaa gaattnnngc 60  
ntanctcaga tacaaaagtg gaaaaagaaa cggctataat ccatggggaa gactttctat 120  
ttcttagtct gtctctgtc ccaaatagct cagctctct caccctaaact cgag 174

<210> 1028

<211> 169

<212> DNA

<213> Homo sapiens

<400> 1028

gaattcgcg cgcgctcgac gtatatgtta attgagacaa gcaggttgta aaatgacctt 60  
ctcttcccat tcttctcatg ttgtcctcaa aaaagatata cttcttttct ttttttttct 120  
tttttctttt tttgagatag acagactctc tctgccaccc agactcgag 169

<210> 1029

<211> 265

<212> DNA

<213> Homo sapiens

<400> 1029

gaattcgcg cgcgctcgac gagtcttttag agttttcttag gtgaacgatc atatcatcca 60  
tcagcaaaaca gtgagtttga cttcctcctt aatgatttgg atgcccttta tttcttttct 120  
ttgtctgatt gctctggcta ggacttccag tactatgttg aagaggagtg gtgacagtgg 180  
gcaccttgt ctagttccag ttctcagagg gaatgcttcc aacttttccc cattcagtat 240  
tttgttggt gcaggccatc tcgag 265

<210> 1030  
<211> 223  
<212> DNA  
<213> Homo sapiens

<400> 1030  
gaattcgcgg cgcgctcgac ctgagtcgtc taaaattctg cattacagtt gcgattattt 60  
tccttttgata ttacaatttt gatttatgtt ttttataaca ctgtatttt tccttattac 120  
cacatcaata tatattcatt gtggaaaact atgtaaaaat gcagaaaaga atacattaaa 180  
aaataaaaac tcctgcattt tactccttac tgatactctc gag 223

<210> 1031  
<211> 135  
<212> DNA  
<213> Homo sapiens

<400> 1031  
gaattcgcgg cgcgctcgaca aagcttctga gctcaccaaa caaggatttc agtgtagatt 60  
ttgtctttct tgaacttaaa gaaacaaatg acaaagtttg aatggaaaag cctgctgttg 120  
ttccccacgc tcgag 135

<210> 1032  
<211> 186  
<212> DNA  
<213> Homo sapiens

<400> 1032  
gaattcgcgg cgcgctcgac cccggctttt ctgggagccc aagagttttc tgagtgtgca 60  
gagaaccctt ctatcatgaa gactttattt agagtcgggc tagggttggt actgccttta 120  
ccaggcttcg tattcccttc ctctgtgtct ggcctacctt ctacagtttc tggccactta 180  
ctcgag 186

<210> 1033  
<211> 165  
<212> DNA  
<213> Homo sapiens

<400> 1033  
gaattcgcgg cgcgctcgac gaaaaaaaaa gtgccttttg ctgctttaaa gaattggggg 60  
atatgggatg aagcagccat gtacttgat tttctgggc tttctgggc actcttctct 120  
cttggcagat gttttcttaa agtgaacaca ccagaagcgc tcgag 165

<210> 1034  
<211> 259  
<212> DNA  
<213> Homo sapiens

<400> 1034  
gaattcgcgg cgcgctcgac ctttgatcca tggaacatt ttataaaata atttccaaaa 60  
taatttcctg gaaatctgga attgtagtct gtagcaaatt gggattattt attaatataa 120  
tttaatttaa tttatgagat cagagtcttg gtatgttgcg ttggctgggc tcgaactcct 180  
aggcttgagt gatccttctg cctcagcctc tctagtggct ggaactgtaa gtgcacacca 240  
ccatggcaca aatctcgag 259

<210> 1035  
<211> 205  
<212> DNA  
<213> Homo sapiens

<400> 1035

gaattcgcgg ccgcgctcgac attatttggct gtccttttga attcatttgt ctttttcaga 60  
 ttgtggggca ttgacctggt aataactaaca ataatacaata atactcagtc gggataaaga 120  
 cacagataaa ttgcatggaa aaaggatggt ggggggatcc atttctggct gtgtatttcg 180  
 ctgccttgtt gtccctatcc tcgag 205

<210> 1036  
 <211> 171  
 <212> DNA  
 <213> Homo sapiens

<400> 1036  
 gaattcgcgg ccgcgctcgac ctgtttgtgg tgagggtgtaa ttatgtgtgt ttttcctagc 60  
 ttagtgtgtg cgttctttct ttttgtttct gagaatgctg tgttgagggg gtttttgag 120  
 aaaacggtgg ggttggggagg ttgtagtact tcaaacaag gtgaactcga g 171

<210> 1037  
 <211> 251  
 <212> DNA  
 <213> Homo sapiens

<400> 1037  
 gaattcgcgg ccgcgctcgac ccggtttccc acttcaacag ttacttcagg tttaaagtcc 60  
 tttttatctc tgtaacctgg tgacataaag ccaggaacat tttccacaa tccaccttag 120  
 cataaaacat aacaatttca ttcactcagtt gttattgtgt agaaccaatg aacatgttgg 180  
 tcatttgtct gtatttagtc tttatttgta ttgctatatt tgagcattcc aagattgcag 240  
 agggctcga g 251

<210> 1038  
 <211> 159  
 <212> DNA  
 <213> Homo sapiens

<400> 1038  
 gaattcgcgg ccgcgctcgac cccatatatc acaagcaata tgggaagaat aaaaaaagta 60  
 aacctattat tattatattt gagatatggt ctctctcacc caggctggaa tgcagtgggtg 120  
 caatcacagc tcactgcagc ctcaatctcc aagctcgag 159

<210> 1039  
 <211> 188  
 <212> DNA  
 <213> Homo sapiens

<400> 1039  
 gaattcgcgg ccgcgctcgac cttaaatctt tgcatcatta ttgcatatc ttgagacaa 60  
 caaaaatttg ccttttttta gttttttttt tggtgttggg atctaaaaga ttcttatatg 120  
 taaatacaaa cattacagag aaagtgaata tgatagccaa aatgtggatt atgaggatag 180  
 cactcgag 188

<210> 1040  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<400> 1040  
 gaattcgcgg ccgcgctcgac taaataaata aattaattaa ttaataaagt aataataata 60  
 ataaagccca gcctggttgg tgtgctgtag gtagatattc atgttcaagg ctctgtctct 120  
 tcctgacctc cgaactgttg tcataaaatc attcattcat acactaaacc atttgatatg 180  
 tatttactga atcccctact cctcgag 207

<210> 1041

<211> 177  
 <212> DNA  
 <213> Homo sapiens

<400> 1041  
 gaattcgcgg ccgcgtcgac acccctcacc cccaaccctt caaccttata ttaccttgaa 60  
 attccaccga tgctatatcc gggtttgttt gcaactttca agtgggtatt atttccgtta 120  
 gctttggagg aatattcttg tgatcacgca atcaaccatc atgatagaaa cctcgag 177

<210> 1042  
 <211> 172  
 <212> DNA  
 <213> Homo sapiens

<400> 1042  
 gaattcgcgg ccgcgtcgac ccactttttg gagagtagca aatctagctt tttgtacag 60  
 acttagaaat tatctaaaga ttctatcttt ttacctcata tttcttagga atttaattgt 120  
 tatagttgtt ctttttttcc tatgtctttt ggctcaagca acgtcgtctg ag 172

<210> 1043  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

<400> 1043  
 gaattcgcgg ccgcgtcgac cagtcaggcg ctgtgggtca cgcctgtgat ccagcactt 60  
 tgggagggcg aggtgggcag atcgccctggg gtcgggagtt tgagaccagc ctgaccgaca 120  
 tggagaaacc catctctgct aaaaatgcaa aattggccgg gtgtggtggc atgtgcctgt 180  
 ggtcccggt actcgggagg ctgaggcggg aggatcgctt gaacctgggg ggcggagggt 240  
 gaggtgggca gatcgcctgg ggtcgggagt ttgagaccag cctgaccgac atggagaaac 300  
 ccactctctg taaaaatgca aaattggccg ggtgtggtgg catgtgcctg tggccccggc 360  
 tactagggag tgctcgag 378

<210> 1044  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<400> 1044  
 gaattcgcgg ccgcgtcgac cgttcgattg agttggggtg gaactctggc gtcttctcag 60  
 gtgggtaaag gaaccagcgc ttacgaccgt agatcacttc tgagtaccgg ggtccatgcc 120  
 agtgggaagg caccctcag ccagctcctg cgattccaaa gctgtaagct ggagcgggtc 180  
 ccagcaggcc aaatgggggt ggggagtagt gccgaaagag agaggccac tcggtgaagt 240  
 tgttgtcccc gaagaagtac aggggtgtcat tgcccaggga ggtgggggtc tgggggtgca 300  
 gcagctgctc cacatactcc tggaagggca agtccacttt gtggtaggag taggtgttgg 360  
 cgtgtgtcag ccggaccact ctgtccccaac acgaagccag caacctgtcg cgggagcaca 420  
 gggcccgga cctcgag 437

<210> 1045  
 <211> 420  
 <212> DNA  
 <213> Homo sapiens

<400> 1045  
 gaattcgcgg ccgcgtcgac gcggggatcc ttggcgccat tgtgtgccgt gggcgtctcg 60  
 tacaccgct agcccaggcg cagtcggcag taggggtcca tgcgggtcat gccgtaattc 120  
 ttggccaact ttgcctgtac caccgtgatg ttcagtcggc ccacgggtgc cactgcgcct 180  
 ccgtactgca gctgctgggc cgcctgggag tccagctgga cctgcccgtg ctgctgtgtg 240  
 ggcgtgatgc ggaggaagtc ctgcccggag tcaccgatgt acaccggccc gcgctgagt 300  
 ctgacgggtg tcgccaatggt gctgcggcgg cccccgtggc tcgccgaccc gacagtgcag 360

cgccggggcga cctcctgcgc ccccgccgga gcctgcgacg gagacagttg tcacctcgag 420

<210> 1046

<211> 424

<212> DNA

<213> Homo sapiens

<400> 1046

gaattcgcgg ccgcgtcgac tgcgctcta agtggatatt taaggatgct gactgcgtgc 60  
 cggcatagtc acagtgcgga cacttgtagg gtttctcacc tgaggaggat ggcgaggagg 120  
 ggtgcgggct gtccctcctgg gcactcccgg tctgggagag gccgcctccg accccgctct 180  
 cctcggtagc gtttagaggag cccggcgtgg tggagcggct caccgactgg gactcctggt 240  
 cactgcccga gccacgccgc tcatccaggc ccacgtgcag cccatcctcc tcgcccttgc 300  
 ggtcccgtt gtggacacgg gagtgcacga ccacctgggt gtaagtgcgg aacacccggc 360  
 cgcagtcggg gcactcgggt ggcttctcct tcatgttccc aggaccctgc aggttatact 420  
 cgag 424

<210> 1047

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (251)

<400> 1047

gaattcgcgg ccgcgtcgac gggggaaaca agcctcccgg gtcttgcaat agccccacga 60  
 ggagcccagg atggctgggg caggatggag cagcagagat gaaggagtg ggtgggttcc 120  
 ctgctcacag gtgaggtgag ctatgctggg ctgggtgatg aaccagatgg gaggaggtgg 180  
 tgagacaggg ggagagccag gtgccaggga tagctgctcc ctgttctggc accagcaatg 240  
 agaaaataaa nacaccacag agtggtggcag caatcgctgg gggagggaca cacttggtgg 300  
 tgcgggcagg tggggcagtg ggggttcaag tgttcaggtt ggacacacac cacttttgag 360  
 atgactacga aagacccaag ggtgggcgtt aaataggggg ctggatacat aggtctggag 420  
 ctcagcagga cgcgccagga aggaaatggg agatgataga atgggaattt tctcgag 477

<210> 1048

<211> 192

<212> DNA

<213> Homo sapiens

<400> 1048

gaattcgcgg ccgcgtcgac catgaaccca atccggagaa ggttccagcg ggtccccac 60  
 cctcccctcc tctcctact tctcctcttg acagcgagga caggaggggg acaaggggac 120  
 acctgggcag acccgccggc tctccccca cccaccccgg cccctcacat catactccaa 180  
 ccaaacctcg ag 192

<210> 1049

<211> 366

<212> DNA

<213> Homo sapiens

<400> 1049

gaattcgcgg ccgcgtcgac gttttctctt tcgatatata tgtctctgtt tttctctgtt 60  
 tctacctcct tctctcctca ctgtttcttt ctgtttttat ctttctctct ctttctctct 120  
 cttccgtgca tctccagtgc catggggggc cctgtgctgg gggcgccagg agagccacct 180  
 ggagccacgc ctgtgtcccc ggctttgggg agggctcggg ggttggtgag tgcacggttg 240  
 gcgctgtccc acgcgccccg ggcgcacgca ctccccggtg ctccgatttg gctggcagta 300  
 cctgcccccg ccccgccggg cgcgcctccc gccaccagcg atcgcttggg agaggggttac 360  
 ctcgag 366

<210> 1050  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (104)

<400> 1050  
 gaattcgcgg ccgcgtcgac atccccgaac cccgctttcc ggcccgcggc gaccgcccgc 60  
 aactgttggt gctgccgcat tgctcccgcc gggctgtagc tganccgga gcccggtggg 120  
 gccggtgagt ttgagttcct gagatctagt tgggtgagaga catgatgttc taccggttgc 180  
 tgtcgattgt tggaagacaa agagccagcc caggatggca gaactgggtcc tctgcaagaa 240  
 acagcgcac agctgccgag gcgcgttcca tggccctgcc caccagga cagggtggtc 300  
 tctgtggagg tggaatcacg ggcaattctg tggcccatca ccaatccaaa atggggtgga 360  
 aggatattgt ccttttgagg cagggcaggc tggctgctgg ctctaccagg ttctgtgctg 420  
 gcatectgag cactgccagg cacttgacca ttgagcagaa gatggcagac tactcaaaca 480  
 aactctacca tcagttagag caagaaacag ggatccgaac agggtaacac tcgag 535

<210> 1051  
 <211> 303  
 <212> DNA  
 <213> Homo sapiens

<400> 1051  
 gaattcgcgg ccgcgtcgac cacagacact gtggtgaact tccttatccg cgtggcctgt 60  
 caggttaatg acaacaccaa cacagcgggg tcccctgggg aggtgctctc tcgccggtgt 120  
 gtgaaccttc tgaagactgc gttgcggcca gacatgtggc ccaagtccga actcaagctg 180  
 cagtgggttc acaagctgct gatgactgtg gagcagccaa accaagtga ctatgggaat 240  
 atctgcacgg gcctagaagt gctgagcttc ctgctaactg tcctccagtc cccaggcctc 300  
 gag 303

<210> 1052  
 <211> 533  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (286)

<400> 1052  
 gaattcgcgg ccgcgtcgac tgatgaagaa gcacaaggct gccgtggctc aggttccccg 60  
 ggacctggct cagataaatg atctccaagc tcagctagaa gaagccaaca aagagaagca 120  
 ggagctgcag gagaagctac aagccctcca gagccaggtg gatttcctgg agcagtccat 180  
 ggtggacaag tccctggtga gcaggcagga agctaagata cgggagctgg agacacgcct 240  
 ggagtttgaa aggacgcca gtgaaacggc tggagagcct ggctanccgt ctcaaggaaa 300  
 acatggagaa gctgactgag gagcgggatc agcgattgc agccgagaac cgggagaagg 360  
 aacagaacaa gcggctacag aggcagctcc gggacaccaa ggaggagatg ggcgagcttg 420  
 ccagggaagg ggcgaggcg agccgcaaga agcacgaact ggagatggat ctgaaagcc 480  
 tggagggtgc taaccagagc ctgcaggctg acctaaagt ggcatcctc gag 533

<210> 1053  
 <211> 531  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure

&lt;222&gt; (511)

&lt;400&gt; 1053

```

gaattcgcg cgcgctcgac cgcggccgcg tcgactcccc aaggaaaatc ttttcagctt 60
ccagacagca accacaacta tgcaagccat ctccgtgttc aggggctacg cggagaggaa 120
gcgccggaac cgggagaatg attccgcgtc tgtaatccag aggaacttcc gcaaacacct 180
gcgcatggtc ggcagccgga ggggtgaagg ccagacgttc gctgagcggc gcgagcggag 240
cttcagccgg tcttgagcgc accccacccc catgaaagcc gacacttccc acgactcccg 300
agacagcagt gacctgcaga gctccactg cagcttgac gaggccttcg aggacctgga 360
ctgggacact gagaagggcc tggaggctgt ggcctgcgac accgaaggct tcgtgccacc 420
aaaggctcatg ctcatctcct ccaagggtgc caaggctgag tacatcccca ctatcatccg 480
ccgggatgac cctccatca tcccaccc nctacgacca tgaagctcga g 531

```

&lt;210&gt; 1054

&lt;211&gt; 454

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1054

```

gaattcgcg cgcgctcgac ggcgcttgcc tgtaatccca gctcctcagg gggctgagac 60
aggagaatcg cttgaacctg ggaggtggag gctgcagtga gctgagatcg cggcactgca 120
ccccagcctg ggctacagag tgagacttgg tctcaaaaaa aaaaacaaaa acaataaac 180
aaacaaaaaa caacaacaaa aaacacctg ggtactattc catcaaatga aggtactgtg 240
agttatctaa tcagttccct gttgaggggc attttgattg tttcatgtcc ttactctta 300
ggaacagtga tgcagtgaat atcctggtgg atatttaata gacgttctct gagttgacct 360
tgcctggatg gagatgcatg gataatagac gctctgtgtt tctgctgccc attatactcc 420
aaacacttgc agcctgtcgc tcagtgcgct cgag 454

```

&lt;210&gt; 1055

&lt;211&gt; 435

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1055

```

gaattcgcg cgcgctcgac cgcccccgcc cccgccccgc tcccaggggg tcccagcctg 60
gcgggtgaaa gggcactggc ggttccccgt gagccgatgt ctccatgcgc ggctcctggg 120
ggtcctccct tttgcgcagg cgaggaaacg ggcttggggg tcaggaagca gcccacagcc 180
cgcccttgga ggtgacatca ccagggctta cctccacaa acacatttaa caacagacaa 240
aacgtgaacg aggagaaact ggagtgcgcg tttgaaccag ccacagtctc tacgtgtcat 300
ccaaggagcc cggcacagac cccgtgtcac ccccatgtca cccgcagacc ccgcgtcacc 360
catagatacg cacaccccg gtcaccccca tgtcacccgc gtgtcaccca cagatacacg 420
gcccccgtag tcgag 435

```

&lt;210&gt; 1056

&lt;211&gt; 540

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (20)

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (134) .. (135)

&lt;400&gt; 1056

```

gaattcgcg cgcgctcgan tgggcgtggg ggcagcgtc tgtaatctcg gctactcggg 60
aggctgagac aggagaattg cttgtaccgc ggaggcagag gttgcagtga gtgagatcaa 120
gctgctgcac tccnnctg ggcagagagc gagactttgc ctcaaaaaac aacaaaacaa 180

```

```

acaaacacta tggtttctgt cctggtaatt ctctctctca aatcacttgc tctggaggaa 240
tcaagctatc atggttgagaa cagectaatt cagaggcctt catagtggag aactgaaacc 300
tcctaccaat aacctatgta tgattttagt gcaaatcctt caattcaaat caagctttca 360
gtgactact atcttagcca gtaccttacc tgcaaaactca agaggggacc taagccagaa 420
tcaaacaact atgcctctga ttccctgacct tcggaactgt gaaataacat ttgttgtttt 480
aatcgctaa gtttaagggg ttgttacgca ctgatagata atacaggacc actactcgag 540

```

&lt;210&gt; 1057

&lt;211&gt; 703

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1057

```

gaattcgcgg ccgcgtcgac agggaaacata tcttttttcc agagcctctg tgtgctgggt 60
tactgtatac ttcccttgac agtagcaatg ctgatttgcc ggctggtagt ttggctgat 120
ccaggacctg taaacttcat gggtcggctt tttgtgggta ttgtgatgtt tgcctggctc 180
atagttgcct ccacagcttt ccttgctgat agccagcctc caaacgcag agccctagct 240
gtttatcctg ttttctgtt ttactttgtc atcagttgga tgattctcac ctttactcct 300
cagtaaatca ggaatgggaa attaaaaacc agtgaattga aagcacatct gaaagatgca 360
attccacatg gagctttgtc tctggccctt atttgtctaa ttttgagggt atttgataac 420
tgagtagggt agggagattaa aaggagacca tatagcactg tcaccctta ttgaggaac 480
tgatgtttga aaggctgttc ttttctctct taatgtcatt tctttaaaaa tacatgtgca 540
tactacacac agtatataat gcctccttaa ggcagatgag agtcaccgtg gtccatttgg 600
gtgacaacca gtgacttggg aagcacatag atacatctta caagttgaat agagttgata 660
actattttca gttttgagaa taccagttca ggcagagctc gag 703

```

&lt;210&gt; 1058

&lt;211&gt; 263

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1058

```

gaattcgcgg ccgcgtcgac cctgtctca aaacaaaaaa ccttccttta atcttacatc 60
agatgtgtgg gtttttaaaa ttatttatgt gttttattta ttttatttta ttgagacgga 120
gtcttgctct gttgcctggg ctggagggca gtggcatgat ctgggtcac tgcaacctct 180
gcctcccatg ttcgagcggg tctcctgcct cagcctccca agtagctggg attacaggtg 240
cccgcacca caccgaactc gag 263

```

&lt;210&gt; 1059

&lt;211&gt; 316

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1059

```

gaattcgcgg ccgcgtcgac ccagcatctc tcaacagtct cagctcgctc attcttaaga 60
tgtcagctta aatgttatct cttcagaggc ccccatgttc tctcttgcaa tggcctgttc 120
tattccatta ggggactttg ccatatatgg catatttgtg taaaagtacc atgagagcag 180
aggttttgtt tcctttatcc ctccatacac agcaactgga acaatacaat gcatagagta 240
aacatgcaac agataacctg aaggaaatgct gtttcatgcc ttcattcctt cctatacatt 300
attgtctccc ctcgag 316

```

&lt;210&gt; 1060

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (27) .. (29)

&lt;400&gt; 1060

```

gaattcgcgg ccgcgtcgac ttgaatnnna gacatgcctg ctcaccccc actgcactaa 60
cctaaataat ctctgattat tttctttttc tcttgctact accaaattct gttcttgagt 120
gaggaagcag ctgggttaaa aaacaaaagc cctgatatgt atatatattt tttttcctga 180
agaataccat caggatgaag gctatgatta atacacataa ttgctacaaa tggcagctaa 240
ctgcagaaaa ccacctcca gctgttgagg gaaggaaatt gctgacagcc actccccatt 300
gggtggctac caaaagagag gagctcacag gagcaggaga gaatacacat ctccatccca 360
cgtgacccat agagatgacc cattaggctc gag                                     393

```

&lt;210&gt; 1061

&lt;211&gt; 247

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1061

```

gaattcgcgg ccgcgtcgac gctaaacgga ctgtttttat tgtagtaaaa gagctttgta 60
aattaaccaa ttaattttta agccctaaat aagcttttct gtgcatttga gatctagaag 120
atacagcttt attaacttga tctaaatttc tgaagggggc ttgtatttct gtaatcagtg 180
atatcagtag tcaactgttg gcaaagggca ttttttaaaa gaaatgcaca tagcaggctt 240
tctcgag                                     247

```

&lt;210&gt; 1062

&lt;211&gt; 240

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1062

```

gaattcgcgg ccgcgtcgac aaaatagccc tggaaagtga gccttcagct cctctaccca 60
cagctgacta aaaacattgg caagtttgtc acctaggctg ttgtcaccg aatataaatg 120
agaccattt ctggccagaa aacttcagct atcacagtct acatttgtat gagttgcttg 180
gctgtttttc caagcaaaag aaggtgcatg gtctcatgta tttcccccca acacctcgag 240

```

&lt;210&gt; 1063

&lt;211&gt; 429

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1063

```

gaattcgcgg ccgcgtcgac gtgggagcgg aggtaggagg gctcagaggc aggaagcatt 60
ttcggcaaac cactgcagag taggcatgtc atccctccca ccagcactgg gggagcccaa 120
tgcccaccac ggacaagggg tgccagacac ttgaactagc agccaaggaa gtccctacca 180
tctcatgatg aggagcataa aggtgggtgt atgtgcaact gcctagaggc agataaataa 240
atgtgaaggc aaagtgggcc aaggaagcaa gaggtggaaa agaccaacaa aattcaacta 300
acttcctcc ccagtccaca actatgctaa ccccttctgc cactgggcca actgcagaga 360
taaaaatgcc agtgactcac tccagggttg gctcttgagg ctgccacaag cctgatactc 420
agcctcgag                                     429

```

&lt;210&gt; 1064

&lt;211&gt; 210

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1064

```

gaattcgcgg ccgcgtcgac gaatgggatg cataccatag acgaacgagg cggagactat 60
tgccgggaatc ttactgttca ggagctgttc ctagaactaa ctcccttact gtcattgatg 120
tgcatccac tctgtgctt tctgtacaac cattcaagtt ttaatttccc aggtgaacca 180
tctttatctg ccattaccac aagcctcgag                                     210

```

&lt;210&gt; 1065

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (138)

&lt;400&gt; 1065

```

gaagaaaaatg aagcacctgt ggttcctcct cctgctggtg gcggctccct tacgggtcct 60
gtcccaggtg cagctgtatg agtcgggccc agggctgatg aagccctccg agaccctgtc 120
cctcacctgc ggtgtctntg ttggctccct cagtgggtgct gccgacttct ggggctgggt 180
ccgccaggcc cccgggaagg ggcttgagtg gattggcaat atgcaccatc gtggaaatgc 240
ccattacaat ccgtccctcg ag                                     262

```

&lt;210&gt; 1066

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1066

```

gaattcgcgg ccgcgtcgac ggaccggcgg cgtgttggtg gcgttctaga ccttgaacga 60
cggcgggtta ctgggtggcgt tctggatctg gatcgccctc tgctcactgg ggatgctctt 120
gaccggggtc ttcgtcgagt cactgaagtc ctggaccttg accgtctccg gctgactggt 180
gaagtctgag atctggacct acgtcggcct atcagggggg ttctggacct ggatcgccgg 240
tgagtggctg gagaggctcg ag                                     262

```

&lt;210&gt; 1067

&lt;211&gt; 123

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1067

```

gaattcgcgg ccgcgtcgac cgctcgattga attctagacc tgccctcgagt tctcaattct 60
gttaacaatt taaaatttca ttaattgtgt ttaatatcaa tgaatctcaa aaggctcctc 120
gag                                     123

```

&lt;210&gt; 1068

&lt;211&gt; 265

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1068

```

gaattcgcgg ccgcgtcgac ggggttctgt ttccatacaa cattgtttat ttccgattcc 60
tcagaagatc ctttattatg aataacctca gtgtaatgtt aatttcccg ccccatgtca 120
aaattgtcac cctaagcctt tttttttttt tttttttttt ggagacgggc tcaactctgtc 180
agccacgctg gagtgcatg acatgatctt gactcatggc aggcttgacc tcctgggctc 240
aaggaccacc tcccaagcac tcgag                                     265

```

&lt;210&gt; 1069

&lt;211&gt; 153

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1069

```

gaattcgcgg ccgcgtcgac gattgtagat attgggctgt taattgtcag ttcagtgttt 60
taatctgacg caggcttatg cggaggagaa tgttttcatg ttacttatac taacattagt 120
tcttctatag ggtgatagat tggccactc gag                                     153

```

&lt;210&gt; 1070

&lt;211&gt; 563

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1070

```

gaattcgcg cgcgctcgac agggcacttc ctctaagtaa acacaaatat ttctgtagtg 60
aactgtatgc atattccac tgagtaaagg ttataagaag cctcagggtca ggtcttacca 120
ccaaacttga aaacacttgg aatgcagctg ggcagggact tgagcaggtt ttgtcttgat 180
aagcaggtaa gaatggcaga acactggctt attgtcaacc aatgtttttt tatataacctg 240
aagtattcat tgaattctag acctgcctcg agtatgggga gatgggaaaa ggcagggttag 300
gggcatgcag gctcaggga cagggctctg gtgggtggat ggatagccat ggaggcagaa 360
agaggcctct gcaggaagaa cctgggagag cggagaggag gtggtgaggc aggggagcac 420
tatggaatgg cctgaggcc aggaggggct caggatgacc aggcaaaagc acagctggtc 480
caggatggag gggaggcctg cacagcatga gcaggaggct agaggagaca gaccatgagg 540
ccctgggaga cccctcactc gag                                     563

```

&lt;210&gt; 1071

&lt;211&gt; 511

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1071

```

gaattcgcg cgcgctcgac gtcgatgcc tctagtctca gtgaatttaa cctgtgattt 60
tatgtctacg tatattgttc ctttactgaa ccaccacat gcgggccata aaatgagtga 120
aatcacagtg caccctgttc tcttattttt gaagtgttcc acgatttcca gcatgtccat 180
cagatggggg gattgctaac ttctctctta ctcatgtact tacattctgt agttctcatt 240
gcatcacttt ggatgtttac ttgaaaagc agaaactgtc tctttaaact tggccctcaa 300
tgtcatttgc gtatctctga gaacaatagc tatgtccac ccagtttgt atttccgttg 360
gttggtggca cttttttctc attcccccat ctcattacct tgtctgtttt ctggcactca 420
ctataatcag ccttgacta gagctgtttg tggacttggc ttcaccccct cctcctcagc 480
cctccccac ccattaaatt gcgagctcga g                                     511

```

&lt;210&gt; 1072

&lt;211&gt; 339

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1072

```

gaattcgcg cgcgctcgac agggcatcga gagtagtggg aacgtgggtat gagatcagg 60
tggaaggtg aatgaagatt gaaaaaaaa agacggcaaa tagagtagat gctgctagac 120
caattaggaa acttctagtt caggcaagag ataagatag cataggctga ggacaggtgt 180
tggtgatggt gatgcaaga gcgttaggat tctgagatat ttggcaggta ctgttgatag 240
gtggagtggg ggtagaagag aaagatcatg agtttgactt tagatatgtt aagtttgatc 300
taccttgaag acatccaaga gaagacaccg ggactcgag                                     339

```

&lt;210&gt; 1073

&lt;211&gt; 226

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1073

```

gaattcgcg cgcgctcgac tttgatattc tattccattt ttttcagtct tctttgcctt 60
tgctcttcaa ttttgaaagt ttctattgac acatcctcaa gctcagagac tctgcttagc 120
catgtccggt ctactaatga gcccatcaaa agcattcttc acttctgtca cagtattttg 180
ctctgtatca tttctttttt attctttcct agaacttccg ctcgag                                     226

```

&lt;210&gt; 1074

&lt;211&gt; 186

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1074

```

gaattcgcgg ccgcgtcgac gcagatgtcc atttcaacag gcttaagtgc aaccatgaat 60
ggaatcatcg aatctttgat tcttcttgga ataataagta ttcatcctgt tgtaagaaac 120
ctggctggtt tatgcttggg atgctgtgga ctacagaatc aggattttgc aaggaaacac 180
ctcgag                                           186

```

&lt;210&gt; 1075

&lt;211&gt; 247

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1075

```

gaattcgcgg ccgcgtcgac ggtagggatc caccacatat atttataggg ttccagagtg 60
gcttagccat ttgaaacca gtcataattct atttggcatg cttctagctt taacaattaa 120
ccttcttaca ttaatacatg ctttgaatcc agagagtatc tgctgctttg gatctgaaat 180
ggactggcag atctgcggag ctacagcaga gaaaaaatc tggggagaat taaaagttct 240
ccctata                                           247

```

&lt;210&gt; 1076

&lt;211&gt; 222

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1076

```

gaattcgcgg ccgcgtcgac atacctccat ttgcaaacaa aatttcattc ccacttctctg 60
agtccatcca gagtgtgtct ccaaccttcc tctgtctctt gctaaatatt accgctctag 120
tgggtacattc ctattggcat actaactgct gctatttctt ccattctgaa aacaggaata 180
acaaattaac ttatcatgat tctacttccc caaatactcg ag                                           222

```

&lt;210&gt; 1077

&lt;211&gt; 167

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1077

```

gaattcgcgg ccgcgtcgac ggtaaagggtg aagtcagctt tttctagctt acagttctgt 60
catccagttc ctgagctaaa ataggcgcta cagttctgat tttggctttg tcatttgagt 120
ctctggctct tttctgtatg ggtcaagcta gaaggggaca actcgag                                           167

```

&lt;210&gt; 1078

&lt;211&gt; 170

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1078

```

gaattcgcgg tcgcgtcgac atatatttgt atttttgtat gctttggaaa aagacaggaa 60
ataaacacca aaatgttgcc agtaggtatc tctgtgttaa gattagtgtt attattttct 120
tttctgtact tttctgtatt tcccaactgt tatataatga gcgactcgag                                           170

```

&lt;210&gt; 1079

&lt;211&gt; 225

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1079

```

gaattcgcgg ccgcgtcgac ctaatgcata acagcattct ttgaaatgga accagacaca 60
gcctgcctct caatcctcag ctgggggctc ctacagcctt ctgtatttta ctgagagttg 120
acacatcaca cagatcctgt ttggcattcc taccttacgg acgtctcagg ggtgacagga 180
ccagggcaga gccccgtac aaacagacaa ggctgcaatc tcgag                                           225

```

<210> 1080  
 <211> 214  
 <212> DNA  
 <213> Homo sapiens

<400> 1080  
 gaattcgcgg ccgcgctcgac cgcattgtcca gtgggctggg aagcaagcac ttgaagagaa 60  
 ggaaggggag aaaggggtccc ccttgctgtc tgcctctgag gaatggaaat ccttttagacc 120  
 cggccttttt tggaccaata taaatttaatt ttaaattgac agccttccat ttttcgagaa 180  
 agtacaaca gaactgcttt agcaccact cgag 214

<210> 1081  
 <211> 102  
 <212> DNA  
 <213> Homo sapiens

<400> 1081  
 gaattcgcgg ccgcgctcgac gtggtgtctc tacaatactg tgctttttct ctccattaac 60  
 ataatgcattc tgagagtact tctccttcag catgttctcg ag 102

<210> 1082  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<400> 1082  
 gaattcgcgg ccgcgctcgac agccaatata ttccatttta aagcaagcaa taaaaactta 60  
 ttctcgtgtt taatattttt attgacttta aaaagacttt gaacttagtg aaagagaatc 120  
 agtcacctag aaatgtactg ctctcatcta gctgggaagg tcattgtaat ttctctctat 180  
 atagatttgt ttgtctctaga taagcggctc aatttgaata gatttttagt ggtagaaaga 240  
 gatgacggaa gcacattaat ggaacaactc gag 273

<210> 1083  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 1083  
 gaaattcgcg gccgcgtcga ccctaaaccg tcgattgaat tctagacctg cctgctttcc 60  
 tgctgcccc acctgcctca tattgtgtgg gccttttttt gtttgtttca ttcattgttt 120  
 tttttttttt aattatttta aatgagattt ttgttttttt taaatgcaat atctctgtat 180  
 acagactggc tgggccccac cccctgcgtg tggccctccc acagtatttt gtgcaatgaa 240  
 gccctgctcc cagccactct cgag 264

<210> 1084  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<400> 1084  
 gaattcgcgg ccgcgctcgac caacagccag tttggcctcg tggacatccc tgtggagtcc 60  
 aagctgggtca ttgcccaggt cctgctcctg gacttctgcc tggcgtcctt ggccgaccgc 120  
 gtctctcagt tcttctctgg gaccccgaa ctgaaagtgc ctctctgaga tggcagtgtc 180  
 ggtaccact gccaccctg gctgccgctg ggcgggaacc ccaacagggc cccgggaggg 240  
 aacctgccc ccaaccccc acagcaaggc tgtacagtct cgccttgga agactgagct 300  
 gggaccccca cagccatccg ctggcttggc cagcagaacc agccccaagc cagcaccttt 360  
 ggtaataaaa gcagcaactc gag 383

<210> 1085  
 <211> 282

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1085

```
gaattcgcg cgcgctcgac ctttgagatt gtcacttctg tacataaacc acctttgtga 60
ggctctttct ataaatacat attgtttaaa aaaaagcaag aaaaaaagga aaacaaagga 120
aaatatcccc aaagttgttt tctagatttg tggctttaag aaaaacaaaa caaaacaaac 180
acattgtttt tctcagaacc aggattctct gagaggtcag agcatctcgc tgtttttttg 240
ttgttgtttt aaaatattat gatttggtca cttgcactcg ag 282
```

&lt;210&gt; 1086

&lt;211&gt; 184

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1086

```
gaattcgcg cgcgctcgac cctgtttatt agaaagttag gagaggatga ttatgttcct 60
tcacccctctc agtgtcttag tactccctac acctgcgtta tggtatgacc tacctttgcg 120
atctgccagt tttgggtca gcttaagtga gaattcatat tctgcttcac tgggaatcact 180
cgag 184
```

&lt;210&gt; 1087

&lt;211&gt; 190

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1087

```
gaattcgcg cgcgctcgac gtgagtcacc atgcccggt attgctttct tatattgaca 60
gtgggtttgt actctctcta tgcctacgg cactgccatc agatgggtggg aaattatgac 120
aggttgttgc tgggtatcct gtagctaagt aatacctagc gaggaaatca ggattagaaa 180
ataactcgag 190
```

&lt;210&gt; 1088

&lt;211&gt; 110

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1088

```
gaattcgcg cgcgctcgac caaataataa aattgttcaa caggaagctt tcttggtccag 60
gtttctccac caaatccata atgctgatgt cctttgccca tatgctcgag 110
```

&lt;210&gt; 1089

&lt;211&gt; 226

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1089

```
gaattcgcg cgcgctcgac ctgtaataag cattataatt cctgtttctta aaataataag 60
ttcatttaag gaaaaggggg tgaaaggaaa aatctgcaga atttaggtct gagataatac 120
catttcaaag cactgtgata caaattactt atatatgtta tatactgtgt gtgtgttaac 180
tacttttatt tgggggcttg ttttgcatac atgtgaaggt ctcgag 226
```

&lt;210&gt; 1090

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1090

```
gaattcgcg cgcgctcgac ggcaggataa aacaacatag aaaatataaa acaatttttg 60
ctttgaaaaa tacagtgcag gtgaccattt actgcttatt ctgtaatcct tactgtctat 120
aattaacttc agtaaacctg aaacttgatg aaaagtttta aaaaattatt tactgtaggg 180
```

acaaagttat atggaatggt gttattttct atactatctg aatgcactgc cagtgaagac 240  
tgtaaagaca gaacacaaac actcgag 267

<210> 1091  
<211> 186  
<212> DNA  
<213> Homo sapiens

<400> 1091  
gaattcgcg cgcgctcgac gtcattttgc tttttccct ctggtgaaaa atcattcctt 60  
ttttatcccg tggcatatat atgtttgcct ttataaatta ggatcaattt ttgtatgttt 120  
aggcagtcac ttttactttg cgtttttcta ttctgtttta aaagcattta tggccaaaaa 180  
ctcgag 186

<210> 1092  
<211> 282  
<212> DNA  
<213> Homo sapiens

<400> 1092  
gaattcgcg cgcgctcgac gtggtctact cgtggataag ttcaaactaa atggatggga 60  
aaaaatataa catcctaaca ttcataaagg aaagctgaag tggttacatt agaacaagca 120  
atgttgctaa ggataagatg agacatttca taatgataaa tgggtgaatt catcaagaaa 180  
acagttctaa acaggtgtgt acctaatcac agtttcaaaa tacatgaagt aaaatctgct 240  
ctcattgaaa ggaaaaatat ataaaatcaa aatctactcg ag 282

<210> 1093  
<211> 208  
<212> DNA  
<213> Homo sapiens

<400> 1093  
gaattcgcg cgcgctcgac gccttctatt gtgctttggt tttgctgact tttctgcacc 60  
ctgtttcctt tggatattca gttctctcaa cctcaagatt gagacggtgg tgggtatgct 120  
tctccacttc catatgacct tcatgctggt ctggaatatc acatgctacg aggtcatcct 180  
tcacactact tgtaagccaa cactcgag 208

<210> 1094  
<211> 187  
<212> DNA  
<213> Homo sapiens

<400> 1094  
gaattcgcg cgcgctcgac ccttaatgcc atccttcatt gtctttcttg cttctcttct 60  
tctggcacag taccattttg ggtctgtgcc ccagtgtgga gcaaaacatt gcctgtccca 120  
ttctgatata cttcagaatt tgagagcaga agttaatgtg gaacaaaagt tttcaccatc 180  
tctcgag 187

<210> 1095  
<211> 221  
<212> DNA  
<213> Homo sapiens

<400> 1095  
gaattcgcg cgcgctcgac ggcactgttt tttttttaa cagttaagta ctgatgtcaa 60  
cagacaaata tttctgatca gatagtcccc tgtcaacagt agcaaatgtg gtttcataaa 120  
gtgggaagaa aacagcattt taaagtaact ttttgggaga ctgatttgag taataataaa 180  
actctggtct cccttaagaa aaaaaaaccc ttccgctcga g 221

<210> 1096

<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 1096  
gaattcgcgg ccgcgtcgac tataaataga tttttttgtt gaatgttaat tcagttatat 60  
attttcttctt tgatatgttc ttttagttgat gcaggccagt taaaatgagt gacttcaagt 120  
tttagagaaa tacataacaa tgtcagttta taattatttt gttttttata caatttacta 180  
ttttagaarc tcattcatat tccattgtat ttccatgaat gatactttgg gacaactcga 240  
g 241

<210> 1097  
<211> 192  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (29)

<400> 1097  
gaattcgcgg ccgcgtcgac gagacaccna aatccagtca gtatctaadc tggcttttgt 60  
taacttccct caggagcaga cattcatata ggtgatactg tatttcagtc ctttcttttg 120  
accccagaag ccctagactg agaagataaa atggtcaggt tgttggggaa aaaaaaagt 180  
ctggctctcg ag 192

<210> 1098  
<211> 190  
<212> DNA  
<213> Homo sapiens

<400> 1098  
gaattcgcgg ccgcgtcgac cgctcgattga attctagacc tgccctcgaga tgctccttct 60  
taactgtgctg gcctctgtgc tcatggcctg catgacgctg ctgccacctt ggttgggagg 120  
cgctccccca ggccctcccg gccccgacat ctctctcgccc tgcggctcct ataaccccc 180  
cccactcgag 190

<210> 1099  
<211> 152  
<212> DNA  
<213> Homo sapiens

<400> 1099  
gaattcgcgg ccgcgtcgac gtgttggtttg tttgtcagac tcttctgaaa gtttgagatt 60  
aatgggagat gagaaagcat attgaaagaa tacttttctt tttttttaat tattattatt 120  
atactttaag ttttagggta cgagcactcg ag 152

<210> 1100  
<211> 295  
<212> DNA  
<213> Homo sapiens

<400> 1100  
gaattcgcgg ccgcgtcgac ccccgatcca ggcacctggc cctcagcggg cccacctttg 60  
gtatcattgt gaagcacttc cccaagctgc tgcccaaggt cctgggtccag ggcaactgtct 120  
ttgcccgcac ggcccttgag cagaagacag agctgggtgtg cgagctacag aagcttcagt 180  
actgcgtggg catgtgcgga gacggcgcca atgactgtgg ggccctgaag gcggctgatg 240  
tcggcatctc gctgtcccag gcagaagcct cagtgggtctc acccttcacc tcgag 295

<210> 1101

<211> 259  
 <212> DNA  
 <213> *Homo sapiens*

<220>  
 <221> unsure  
 <222> (32)

<220>  
 <221> unsure  
 <222> (48)

<220>  
 <221> unsure  
 <222> (66)

<220>  
 <221> unsure  
 <222> (205)

<220>  
 <221> unsure  
 <222> (212)

<400> 1101  
 gaattcgcg cgcgctcgac tattggagtg cnaagtgcgtg tgattgtngg tgggaattgat 60  
 tcaatntctc aatctttggc ccttgcaaaa aaaccacata taataatagc aactcctggt 120  
 cgactgattg accacttgga aaatacgaaa gggttcaact tgagagctct caaatacttg 180  
 gtcattggatg aagccgaccg aatantgaat anggattttg agacagaggt tgacaagatc 240  
 ctcaaagtga ttctctgag 259

<210> 1102  
 <211> 173  
 <212> DNA  
 <213> *Homo sapiens*

<400> 1102  
 gaattcgcg cgcgctcgac gttaaggagt aggcctcctg agtaaaggag gtgtgatttt 60  
 ttttttcttt gaggtgggag tatagttgga actaaataaa ctacgtgtga atttaccata 120  
 tcaactaaaa ttttgatcaa atgggttttt taaattgtgt ggtacttctc gag 173

<210> 1103  
 <211> 277  
 <212> DNA  
 <213> *Homo sapiens*

<400> 1103  
 gaattcgcg cgcgctcgac ggggtgggta tgcgccaaacc ctatttcagg cagcgctcaa 60  
 agtaggtgga gccgatgtag ccaccccgca tggagcgctg cacgttctgc tcaaacagcc 120  
 gccggttggt ctgcaggacc tctgcggcct ccttggttcag tgggtcctcg gggttgggct 180  
 ccaagaagag atactgcagg ccataaatta tggagtttat cgtaaggact ggcttccagt 240  
 cctctctgag gatgttgagg cagacgttgc cctcgag 277

<210> 1104  
 <211> 208  
 <212> DNA  
 <213> *Homo sapiens*

<400> 1104  
 gaattcgcg cgcgctcgac agaatacttc gcctaaaata ctgttaagtg ggttaattga 60

tacaagtttc tgtggtggaa aatttatgca ggttttcacg aatccttttt tttttttttt 120  
 tttttttgag acggagtctc gctctgttgc cacgctggaa tgcagtaacg tgatcttggc 180  
 tcactgcgac ctccacctct ccctcgag 208

<210> 1105  
 <211> 180  
 <212> DNA  
 <213> Homo sapiens

<400> 1105  
 gaattcgcgg ccgcgtcgac gtccctctct ggcattggtg ctcaaattga tgctaactgg 60  
 aacttcctgg attttgccca ccattttaca gtatttgtct tctatttttg agccttttta 120  
 ttggaagcag cagccacatc cctgcatgat ttgcattgca atacaaccat aacgctcgag 180

<210> 1106  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<400> 1106  
 gaattcgcgg ccgcgtcgac gtcgacgcgg ccgcgaattc gcggcgcgtc gacccaggaa 60  
 aggcctgtgg ggctctctcc cccgcgtctc acacgccctc gcatcccacc gaggcgccag 120  
 cttctgctg cacgttgctg aaactggcct ggaggttctg acaagaatta gagcgcggc 180  
 cgttgccccg gggatgacct ggaagcgaaa gagaccggca cgaattctag agtttcgggg 240  
 tttccgcggg ttgagattgt acgggaaaca atgcattaac caaacctaaa aatcaaacaa 300  
 aactcgag 309

<210> 1107  
 <211> 185  
 <212> DNA  
 <213> Homo sapiens

<400> 1107  
 gaattcgcgg ccgcgtcgac cagcattagc agaccgaaac aggaggggaag gaagtggtaa 60  
 cccaactcca ttaataaacc ccttggtctg aagagctcct tatgttgga tggttaacaaa 120  
 accagcaaat gaacaatccc aggacttctc aatacacaat gaagattttc caggcattac 180  
 tcgag 185

<210> 1108  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<400> 1108  
 gaattcgcgg ccgcgtcgac atgtattgga tgaacgaata tacctcatcc attggaattg 60  
 gagtttttca ttcaggaatt gaagtctatg gcagagaatt tgcttatggt ggccatcctt 120  
 accccttttc tggaaatatt gaaatttccc caggaaatgc ttctgaacta ggagaaacat 180  
 ttaaatttaa agaagctggt gttttaggga gcacggactt cctagaagat gatatagaaa 240  
 aaattgtaga agaactggga tcactcgag 269

<210> 1109  
 <211> 164  
 <212> DNA  
 <213> Homo sapiens

<400> 1109  
 gaattcgcgg ccgcgtcgac acctgattac tttttcacct ctacaaccag gagaattttg 60  
 aatttaaaaa taaatccaaa cattttcctt catattatca atgcttatat attccttaga 120  
 ctattgaaat ttggagaaa atgtatttgt gttcacttct cgag 164

<210> 1110  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 1110  
 gaattcgcgg ccgcgctcgac gatttttaaaa tttttctttc tttaaatttct ctttcatgtt 60  
 atgaattgtt tttctgattt tattgaatta tttttctgta ttatcttgta tcctattgag 120  
 ggttttttgt ttgtttgttt gtttggtgaga cagagtgtca ctctgtcacc taggctggag 180  
 tgcagtggcg tgatcttggc tcacaacaat ctttgccctc caagttcaag tgattctcct 240  
 gccccaaacc tcgag 255

<210> 1111  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<400> 1111  
 gaattcgcgg ccgcgctcgac agctcttttg cctcagaatt ttcagtagcc agtatttctg 60  
 attaactaag ttgaaactct tattagaac tttcagttgg tgatattgta ttctagaaga 120  
 tataaatgag aggtttggct tcattctcagt ttagaaattt attcaaagct aaagatgtat 180  
 atatacatat acttttgtgt gtatatatac acatatgtgt gtatgcagtt tgtcagggtta 240  
 tatatagaat ttctattaag gattttttta atggacagct cgag 284

<210> 1112  
 <211> 303  
 <212> DNA  
 <213> Homo sapiens

<400> 1112  
 gaattcgcgg ccgcgctcgac tgcaattcta atgcattcta cgtttttgaa aatcgataat 60  
 ccatggaagg tccatgggtt gataacctcag gtcaaaaatg tgtttactct gttgattgct 120  
 gtttcacttt acttgtatat cagatatata agctatgaac acaagtttgt agtaaaagta 180  
 tcttctgtct gggcaatggc tcacacctgt aattccaaca ctttgggggg ctcaggtggg 240  
 aggatttcta gtcccagga gtttgagacc agcctgggca ataaactaga cccactctc 300  
 gag 303

<210> 1113  
 <211> 105  
 <212> DNA  
 <213> Homo sapiens

<400> 1113  
 gaattcgcgg ccgcgctcgac ggggcttgta atttacatga gaaccgtgct ggtcactagc 60  
 gctgtctgtg tctgtctgtc ctgcgggact tctgtctctc tcgag 105

<210> 1114  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (73)

<220>  
 <221> unsure  
 <222> (86)

<220>

&lt;221&gt; unsure

&lt;222&gt; (104)..(105)

&lt;400&gt; 1114

```

gaattcgcg cgcgctcgac gagaggagac acaggaagcc cagagagcca gatcgagaca 60
agaaacaccg agnaaaaaagc agcacnaggg aaaaaagaga gacnnattcc aaagagaaaa 120
gtaattcatt ctctgacaaa ggggaagaaa gacataaaga aaagcgacac aaagaagggtt 180
ttcattttga tgatgagagg caccgctata ctcgag                               216

```

&lt;210&gt; 1115

&lt;211&gt; 286

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1115

```

gaattcgcg cgcgctcgac gctttctggt gattgggacc ctgatgcca gtgcccactt 60
tgcaaagaag aaaaagttaa tgaccctgct cccttggctc ctgtccatgc ttgectggcc 120
tcctagagtt ggaggaacaa gccctctcct ggcagaggca ggagagcaag tgctctccta 180
tgatccaata catcaggcgg gagtgctgag tccgtcagga caccactcct cgcagcatca 240
aggtccagtg ggggtgggtc agggcagtga gaagggttg ctcgag                               286

```

&lt;210&gt; 1116

&lt;211&gt; 170

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1116

```

gaattcgcg cgcgctcgac gaagaaaata ccaagtgttc attctgtcat tagcaaggaa 60
caccaatgag gtttcttttt tttctctatt tagggcatat taaaattatc cttcagagta 120
cttgatttga aaatcaagtt tatgcttctg aaaagaatcg tgggctcgag                               170

```

&lt;210&gt; 1117

&lt;211&gt; 191

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1117

```

gaattcgcg cgcgctcgac atttctcttg gaattgggct gctaacaact tttatgtatg 60
caaacaaaag cattgtaaat cagggttttc taagagaaag gtcctcaaag attcagtgtg 120
cttggttact ggtattctta gcaggatcct ctgttctttt atattacacc tttcattctc 180
agtcactcga g                               191

```

&lt;210&gt; 1118

&lt;211&gt; 175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1118

```

gaattcgcg cgcgctcgac gttcttttcta tggaaccag ttggaaaaga tcatttgta 60
accaggggct ctgttcttat agatgcatat cagaatgac cacagtcaga actttgtggg 120
cctcttgta atgctggaaa tttttcaaca ggcctggaag acagccggac tcgag                               175

```

&lt;210&gt; 1119

&lt;211&gt; 205

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1119

```

gaattcgcg cgcgctcgac attctatagg atttctata tacgagatta tgccgtctgt 60
gaaaagagat cgttttattt cttcctttgt gatctggaag acctttattt ctttttcttg 120

```

cctaattgcc ctgattagaa tttccactac aatgttgagt atttgtggta agagcagata 180  
 ttcttgtctt gtctctgac tcgag 205

<210> 1120

<211> 276

<212> DNA

<213> Homo sapiens

<400> 1120

gaattcgcgg ccgcgtcgac cacagacata gttctaaatg actttcagct atttctagaa 60  
 attagacaca tcttcctaag cgaagggtta ccatgtttaa ggttccatga aagaatgtgc 120  
 cctaagttgt tgcccagccc ctggctgaga agaaacgggc gtgtgggagg cgggtgaaga 180  
 gcacacaggg aggggacgga gaagctcctg agccagcctc ctccatggct cagtttcatt 240  
 tcagtgcgtg gcacttccca gaagaaacga ctcgag 276

<210> 1121

<211> 339

<212> DNA

<213> Homo sapiens

<400> 1121

gaattcgcgg ccgcgtcgac ggggggtccc cctgctgagg agagaccagg tggaccccag 60  
 ctgcctgtca cccttcacat gggacttgct gtcaaaccct aggatagtct cataaagggg 120  
 aggctgggccc agcctgctgc tgtctgcttc aggaccaggc agagagttag gctggggggtt 180  
 ctcacacctt actccaccgg gcacatccca acctgcactg gggcccaccc gagcgcttgt 240  
 tctgggtetca ccgcctccct tggcagctgc agcccccatg cagaagaggc tcccaggccc 300  
 aagctctgtg tgaccagag aaataatgat gcactcgag 339

<210> 1122

<211> 168

<212> DNA

<213> Homo sapiens

<400> 1122

gaattcgcgg ccgcgtcgac ccatacccag cctgtttaat tctttataat tcacttctgt 60  
 tgtgaaaaa gcattttata cttaagctta atgattgcaa cagtcaaaat tattttattt 120  
 ttaaaactca cttatcattt aggaattatt ttcccgaag gactcgag 168

<210> 1123

<211> 202

<212> DNA

<213> Homo sapiens

<400> 1123

gaattcgcgg ccgcgtcgac attcatctag catggaagg agtgaaacag gttctcggga 60  
 gggttcggat gttgcctgca ctgaaggcat ttgtaatcat gatgaacacg gtgatgactc 120  
 ttgtgttcat cactgtgaag acaaagagga tgatggtgat agttgtgttg aatgttgggc 180  
 aaattctgaa gcagaactcg ag 202

<210> 1124

<211> 172

<212> DNA

<213> Homo sapiens

<400> 1124

gaattcgcgg ccgcgtcgac cattattgta aataaaacct aatattttta actatatata 60  
 tctttttaat tagattacac caccaccttc actgtcagat ccacttaaag agcttttttcg 120  
 acaacaggaa gttgtaagga tgaaactacg tttgcaacac agcatactcg ag 172

<210> 1125

<211> 164

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1125

```

gaattcgcgg ccgcgtcgac cgattgaatt ctagacctgc ctaggcacag atgctaattgc 60
aggcactgca ggtaagctgg gcttgggtatc cttccctggc ttcagaaaga agccaacaag 120
gagcgttttg cagaatgaaa cctttgtttc cacaagcact cgag                               164

```

&lt;210&gt; 1126

&lt;211&gt; 563

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1126

```

gaattcgcgg ccgcgtcgac atttgggtcat tgggaattac tgctattgaa ctagccaagg 60
gagagccacc taactccgat atgcatccaa tgagagtctt gtttcttatt cccaaaaaca 120
atcctccaac tcttgttga gactttacta agtcttttaa ggagtttatt gatgcttgcc 180
tgaacaaaga tccatcattt cgtcctacag caaaagaact tctgaaacac aaattcattg 240
taaaaaattc aaagaagact tcttatctga ctgaactgat agatcgtttt aagagatgga 300
aggcagaagg acacagtgat gatgaatctg attccgaggg ctctgattcg gaatctacca 360
gcagggaaaa caatactcat cctgaatgga gctttaccac cgtacgaaag aagcctgac 420
caaagaaagt acagaatggg gcagagcaag atcttgtgca aaccctgagt tgtttgctta 480
tgataatcac acctgcattt gctgaactta aacagcagga cgagaataac gctagcagga 540
atcaggcgat tgaagaactc gag                               563

```

&lt;210&gt; 1127

&lt;211&gt; 217

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1127

```

gaattcgcgg ccgcgtcgac ctcttagctg agcaggcgag agcatcatgg ataccgactt 60
atatgatgag tttgggaatt atattggacc agagcttgat tctgatgaag atgatgatga 120
attgggtaga gagaccaaag atcttgatga gatggatgat gatgacgacg acgatgacgt 180
aggagatcat gacgatgacc accctgggaa actcgag                               217

```

&lt;210&gt; 1128

&lt;211&gt; 222

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1128

```

gaattcgcgg ccgcgtcgac gaaaaccgct acattgtcct ggccaaggac ttcgagaaag 60
catacaagac tgtcatcaag aaggacgagc aggagcatga gttttacaag tgacccttcc 120
cttccctcca ccacaccact caggggctgg ggcttctctc gcacccccag cacctctgtc 180
ccaaaacctc attccctttt ttcttttacc agagctctcg ag                               222

```

&lt;210&gt; 1129

&lt;211&gt; 185

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1129

```

gaattcgcgg ccgcgtcgac ggctgcagac agacaaacac ctgagctggt ctgaatacct 60
tcagggttcct ggctccctg agcaagtga gaaattttta ccttcaagga tcagggtttt 120
tctgtttgtt tgttttttta cacacataa tgtgaacaaa gagtatgcgt ttgtactggc 180
tcgag                               185

```

&lt;210&gt; 1130

&lt;211&gt; 167

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1130

```

gaattcgcg cgcgctcgac cgtgtgagtg tgtgtttgta tacgtctggc aattaaagct 60
ttgtcttctg gaacttagtg aattcttttc tctttttcct ccagaagtat ttgttacaag 120
atgtgtaa at aagagctcta cctagtttgt ttaccatgaa cctcgag 167

```

&lt;210&gt; 1131

&lt;211&gt; 218

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1131

```

gaattcgcg cgcgctcgac cttttgcttt tcttctctca caattctact ctccttttcc 60
tgtctctttt ccaatctatc ctcatctcct cctcctgcct cctctcttat cctatactta 120
tggctgctca acttctgtct attcctcttt cctctctcct tcccacctgc ctgttcatcc 180
tattctcttc tcttgccgct ctatccccac cgctcgag 218

```

&lt;210&gt; 1132

&lt;211&gt; 354

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1132

```

gaattcgcg cgcgctcgac cttttgatg tttgttttc tattttattt ttcgtttttg 60
tgtgtctgca tgggtgtttt cgggcagtg cttctgccat catcaccaca tgtttctctg 120
ctgccactg tcttgaggtg ggccgctcgt gaagccctgc ttcctgccgt ttgcgggacg 180
agtcccgccc tcttttttcc tgtcccatc ggtagtctgc gtgcacgtgt tttccacagt 240
aaaaccgtgt tgtgtaactc tttccagcaa agtaacaatc cgccattaca aaggctctcc 300
tccttgatcc agttaacgag tcagaactct tctcccaatc agcagaacct cgag 354

```

&lt;210&gt; 1133

&lt;211&gt; 464

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1133

```

gaattcgcg cgcgctcgac agacttggtta ctggaataga agaactacgt actaagctga 60
tacaatataga agctgaaaat tctgatttga aggttaacat ggctcacaga actagtcagt 120
ttcagctgat tcaagaggag ctgctagaga aagcttcaaa ctccagcaaa ctggaaaagt 180
aaatgacaaa gaaatgttct caacttttaa ctcttgagaa acagctggaa gaaaagatag 240
ttgcttattc ctctattgct gcaaaaaatg cagaactaga acaggagctt atggaaaaga 300
atgaaaagat aaggagtcta gaaaccaata ttaatacaga gcatgagaaa atttgtttag 360
cctttgaaaa agcaaagaaa attcacttgg aacagcataa agaaatggaa aagcagattg 420
aaagacttga agctcaacta gagaaaaagg accaacagct cgag 464

```

&lt;210&gt; 1134

&lt;211&gt; 159

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1134

```

gaattcgcg cgcgctcgac gttgggttat ttgtctcatt ataagtttta ggaattgttt 60
atatattcta gatatatgtt ccgtatttga tatatgattt gcaaatgttt tttcgcatcc 120
tttgggttat cttttcactt tcttggtagt gaactcgag 159

```

&lt;210&gt; 1135

&lt;211&gt; 419

&lt;212&gt; DNA

<213> Homo sapiens

<400> 1135

gaattcgcgg ccgcgtcgac aaggaatctg agaaaaaggg gttgattgaa agaattctata 60  
tggtacagga tattgtttca actgttcaaa acgtcttggg ggaaatagct tcttttggag 120  
aaaggattaa gaacacattt aactggacgg tccccctect ttcattctctg gcctgtttga 180  
ttctggcagc agccaccatc attttgtatt tcattccact gcggtacatc attttaatct 240  
ggggcataaa taaatttact aagaagcttc gaaatcccta ttccatcgac aataatgagc 300  
tactagactt cctctctagg gtaccgtctg atgttcaaaa ggtgcagtat gcagaattga 360  
aactctgcag cagccacagc cccctgcgga agaagcgag cgctccaggg cacctcgag 419

<210> 1136

<211> 238

<212> DNA

<213> Homo sapiens

<400> 1136

gaattcgcgg ccgcgtcgac gcatatcagg agagaagttg ggagtctttc aggtataccc 60  
cgtttccatg tttttggtag taaaagggat gctttgcaaa gcccttgatc agtttcccag 120  
cattttggtt tggatgactt tgacaagtgt tgggaagtgg aggggtgttg tggctgatgg 180  
tgtctgtttc ccccgagccc gcctgaactg taagcactgt gggaagcagg ctctcgag 238

<210> 1137

<211> 220

<212> DNA

<213> Homo sapiens

<400> 1137

gaattcgcgg ccgcgtcgac tgggcttcaa cttgatgttt ttctgctgcc agaagttcca 60  
tatattctgt ttcttctctt attgcagcct ctctcagggc ctccaggcgc tgccggctgc 120  
tctccttcat gttcacgaca tctttgtaat cccctgcag ggctctctgc agtccgtaga 180  
cagcttgga aacggaattt tcacttccat tcagctcgag 220

<210> 1138

<211> 326

<212> DNA

<213> Homo sapiens

<400> 1138

gaattcgcgg ccgcgtcgac caaggaaatg tgagccccag gctgcagaag gaagagtcag 60  
tgaatggctg cgtgttgaca acatgcacca ccagtggctt ctgctggccg catgcttttg 120  
ggtgattttc atgttcatgg tggctagcaa gttcatcag ttgacctta aagacccaga 180  
tggttacagt gccaaacagg agtttctgtt cctgacaacc atgccggaag tgaggaagtt 240  
gccagaagag aagcacatc ctgaggaact gaagccaact gggaaggagc ttccagacag 300  
ccagctcgtt cagccgagtt ctcgag 326

<210> 1139

<211> 256

<212> DNA

<213> Homo sapiens

<400> 1139

gaattcgcgg ccgcgtcgac ctggaaaatc caaaaatatt tggaaacat atagcacact 60  
tacttctaaa attgtggtag aatacatata acatagaaat tattgttcta accattttta 120  
aatgtacaat tcagtggctt taagcacatt cacattgttc tgtttatcta cagaacgctt 180  
ttcatcttgc aaaactgaaa ctctgtattc attaaacact aactcccat tttctccttc 240  
ccccatatcc ctcgag 256

<210> 1140

<211> 320

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1140

```

gaattcgcg cgcgctcgac gactgatgtt ggagtctatg ctcactctga tgtacttcca 60
gtcaaaactca atgccccggg ctccgaccca taggggaatg cagcgggaca taataagctc 120
agcagtggcc cagcccaggg cagcaaccat gatcttgtag tctccctgc cggcattccg 180
ggacatgaca aggtttagac ctatcaggtc tgccacatcc acgctggcct tcatgaactc 240
cccaatgaag tcatagatgc cgccttccca ggtgggaaag aaagtggcca agaacagcat 300
cttgacagag cggactcgag

```

&lt;210&gt; 1141

&lt;211&gt; 273

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1141

```

gaattcgcg cgcgctcgac ggctttctct gaaatgccaa agccacccga ttattcagag 60
ctgagtgtact ctttaacgct tgccgtggga acaggaagat ttccgggacc attgcacaga 120
gcatggagaa tgatgaactt ccgtcagcgg atgggatgga ttggagtggg attgtatttg 180
ttagccagtg cagcagcatt ttactatgtt ttgaaatca gtgagactta caacaggctg 240
gccttggaac acattcaaca gcacccctc gag

```

&lt;210&gt; 1142

&lt;211&gt; 186

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1142

```

gaattcgcg cgcgctcgac tcgaggagtg ccctaatacga cgaggacccc caggcggcgt 60
tagaggagct gactaaggct ttggaacaga aaccagatga tgcacagtat tattgtcaaa 120
gagcttattg tcacattctt cttgggaatt actgtgttgc tgttgctgat gcaaagagac 180
ctcgag

```

&lt;210&gt; 1143

&lt;211&gt; 289

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1143

```

gaattcgcg cgcgctcgac tgcctcagca cctttgcact ggttggtccc ttagtctgag 60
atccactttt acccattgtt cactttctca tttcattttg gtttctctca aacattgtct 120
cattatagaa accttgcttg acaactctaa catgtcagcc tctctgcgct tcttaggacc 180
tttctctcct cttacctgct ttttctctct cccactatg atttggtatc aaaatatttg 240
tgcattttgc aattcagtg tttacagcctg tcaagccacc caactcgag

```

&lt;210&gt; 1144

&lt;211&gt; 534

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1144

```

gaattcgcg cgcgctcgac gctgccttta ttctctgagc cttgactctg tcccaggcct 60
gccctggagc gcctgcagcg tcagctccct gaggtaggtc cggaggggaga ccccccgctg 120
ccccccgccc tcggccagga tacctctcac ctcagtgtccc ctctccaga cccccacagc 180
cctggatgcc ccatagcagc cctgccacgg ctggcagaac tgcctccacc ctccaccaac 240
ccccaaagaca ggcagggtcga cgcggccgag aattcgcggc cgcgctcgacg tggagaagga 300
cgtgcgctgc cgctgggttc tgagccggag tggtcggtgg gtgggatgga ggcgaccttg 360
gagcagcact tgggaagacac aatgaagaat ccctccattg ttggagtctt gtgcacagat 420
tcacaaggac ttaatctggg ttgcccgggg accctgtcag atgagcatgc tggagtata 480

```

tctgttctag cccagcaagc agctaagcta acctctgacc ccactgaact cgag 534

<210> 1145  
 <211> 149  
 <212> DNA  
 <213> Homo sapiens

<400> 1145  
 gaattcgcgg ccgcgtcgac ctaaaccgtc gattgaattc tagacctgcc tcgagaacca 60  
 cccccacct ttggcctct tcatttatcc cttaaatgtt attcctcaga cctccatttt 120  
 ttttttctct cttaatcaca ccactcgag 149

<210> 1146  
 <211> 138  
 <212> DNA  
 <213> Homo sapiens

<400> 1146  
 gaattcgcgg ccgcgtcgac tctagacctg cctcgcggaa cttcagtttg taaacaggct 60  
 ctggtttcac aaggctctaag aactccagggt gaaattcata gacattgtct cttttggcac 120  
 catgtccttg ggctcgag 138

<210> 1147  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 1147  
 gaattcgcgg ccgcgtcgac gttttgtctg ctttaaaatt ctgtattata ctgcatgtac 60  
 tcttttatgg cgtgcttttt tccttggtat tgtatcatga acactagttt gtttttctg 120  
 tttttcttc cgttctgttc ctggacattt ttattttcag gatttggttg tatcatatca 180  
 gaaagaaacc tgtactcaat ggcagttact cctcatttct catcctcttt cccccgaac 240  
 ctcgag 246

<210> 1148  
 <211> 190  
 <212> DNA  
 <213> Homo sapiens

<400> 1148  
 gaattcgcgg ccgcgtcgac gttcactgag cacttacata gattaacagt tacaagtttc 60  
 cataaatcag ttagaatatg actagcttca gggaaggaat tttcaacaac tgcaatcttt 120  
 gattgtttta ctgtgggaac ttgcagtgat ataattgaca acattattta acaataatag 180  
 gtatctcgag 190

<210> 1149  
 <211> 361  
 <212> DNA  
 <213> Homo sapiens

<400> 1149  
 gaattcgcgg ccgcgtcgac tgattatagc aaattcatac aaaccagacc taaaagaaaa 60  
 ctcagaaagc aacatggcaa tggaaaaaga aattggaaga ccagaggcac aggaggaaga 120  
 ggcagatggg gaagatgacg tagatggagt agaggaggca gaggaagagg aggcagggga 180  
 cgagggagtc gaggaagagg tggagggtgc actaggggga ggggaagagg gagaggagga 240  
 agagggtgctt ctaggaggac taccagagcc aaacgagcac gtattgcaga tgatgaattt 300  
 gataccatgt tttcaggacg tttcagtaga ctgcctcgaa ttaaaacaag aaaacctcga 360  
 g 361

<210> 1150  
 <211> 297

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1150

```

gaattcgcgg cgcgcgtcgac ccactgcgca cagccccattt atattaaagt gaagttgatt 60
atagtttcat atgtcttaag gaccattaaa aaaatttttt tggatgaatta tttattcata 120
ttttgcttat ttctcaacag gatatttggt tttttccttc aattttttaa agttcttcaa 180
gtattaggga taatgtcatt atctgtgaag tgttttgcac atatttgctc agcttggttt 240
ttgactttgc ttgttttttg tttttattct tttttgccac acaagccaga tctcgag 297

```

&lt;210&gt; 1151

&lt;211&gt; 346

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1151

```

gaattcgcgg cgcgcgtcgac caagtatggt ctcagaagct atacactcat tatctgatac 60
ttgtaatcag gggtttactag cattgggcat cagtaagtct gttcaaacac cagatccttc 120
tcatccgtac ggattttcaa atatgcgcta tatttcttcg ctaattagtg gtgttggtat 180
tttcatgatg ggtgcaggac tatcttggtt ccatggagtc atgggattgc ttcacctca 240
accaatagaa tcccttctat gggcatattg tatttttagca ggatcattag tatctgaagg 300
agcaacactt cttgttgctg taaatgaact tccaggaaag ctcgag 346

```

&lt;210&gt; 1152

&lt;211&gt; 256

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1152

```

gaattcgcgg cgcgcgtcgac ctgaatgcc catgcgcacc ccacagctcg cgctcctgca 60
agtgttcttt ctggtgttcc ccgatggcgt cgggcctcag ccctcttct ccccatcagg 120
ggcagtgcgc acgtcttttg agctgcagcg agggacggat ggcggaacct tccagtcccc 180
ttcagaggcg actgcaactc gcccggccgt gcctggactc cctacagtgg tccctactct 240
cgtgaactcc ctcgag 256

```

&lt;210&gt; 1153

&lt;211&gt; 181

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1153

```

gaattcgcgg cgcgcgtcgac tagaagtga cagagaatta cacaagtgtg actatacaaa 60
ttgtaaaaca gatactataa tatttccttt tatttttagtg ttatttagct ttattacaga 120
tttctatttt tgtcaaaact tcatgggtcc tttcaagatc ttttttgcca aaacactcga 180
g 181

```

&lt;210&gt; 1154

&lt;211&gt; 304

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1154

```

gaattcgcgg cgcgcgtcgac agaatatatt attccacag gaaaaactca gaaaagggtg 60
gtaaaatcct cagaaggggg agcagttgat tcagtaagac tgcgacaatt taatactgtt 120
acgcttgctt tgatacctga ctaaagtga ctgagtgcac caagcattta agaaaatttt 180
tagacagtgt tttgtttaga attcagggat catgcattct ttaatgggtc tgtttgtttt 240
ttatttcttt tctacaaaga aaacaagtgt tgctacaaa agtgactgct cacaatacct 300
cgag 304

```

&lt;210&gt; 1155

&lt;211&gt; 194

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1155

```

gaattcgcgg ccgcgtcgac attggatttt ggtccatagt tggaggctgt gttgttgaa 60
tagctatggc aagggttgca gattttatca ggggtatgct gaaactaatt cttctcctcc 120
tgttttcggg agctacactg tcatccacgt gggtcaccct gacctgtttg aacagcatca 180
cacacccct cgag 194

```

&lt;210&gt; 1156

&lt;211&gt; 537

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1156

```

gaattcgcgg ccgcgtcgac gcttagaggt catctttcaa ggaggcatta aatatcaatt 60
ataaattatt aagtcagata aatatgcctg accttttcac agttgaaaaa atacattttt 120
tcccctctat caaatgccaa gtttttagtg gaaatgctaa tggcagtgagg aaagggtgccc 180
tcactttcag agagactctc gctgtctgca cccctttaat aattgctctt cctggcaagg 240
ctgccacttc cctgcctccc cagctggcag tggggcaacc caggcctgtt tccagctacc 300
tgcaaaagcca gacctagacc tgccgtagct gttgtcccat gcctaattct agttacagga 360
agccatccct gtaccctggg tccattcaca ggaatgggtt ccagaggagg ctgataagaag 420
ggtttgaaat gactggctgg atcccttccct gctcagacac agtggtagct ggagagcagg 480
cagagatggg agaattgcag gtttgaccac ctgtcgtgac ccagaagct actcgag 537

```

&lt;210&gt; 1157

&lt;211&gt; 580

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1157

```

gaattcgcgg ccgcgtcgac cacttttaaa aaacaaaaaa agacaagaga gatgaaaacg 60
tttgattatt ttctcagtggt atttttgtaa aaaatatata aagggggtgt taatcggtgt 120
aaatcgctgt ttggatttcc tgattttata acagggcggc tgggttaatat ctacacacgt 180
ttaaaaaatc agccccaat ttctccatgt ttacacttca atctgcaggc ttcttaaagt 240
gacagtatcc cttaacctgc caccagtgtc caccctccgg ccccgctctt gtaaaaagg 300
gaggagaatt agccaaacac tgtaagcttt taagaaaaac aaagttttaa acgaaatact 360
gctctgtcca gaggctttaa aactggtgca attacagcaa aaagggattc tgtagcttta 420
acttgtaaac cacatctttt ttgcactttt ttataagca aaaacgtgcc gtttaaacca 480
ctggatctat ctaaagtccg atttgagttc gcgacactat gtactgcgtt ttctattctt 540
gtatttgact atttaacctt ttctacttgt cgcctcgag 580

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&lt;210&gt; 1158

&lt;211&gt; 397

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (27)

&lt;400&gt; 1158

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gaattcgcgg ccgcgtcgac ctgccangtg gatgagaagt gattacctgt ggaaattcat 60
agtgttatct ttttatagca ttcatttaca aagggttgat ttatgtaggc cttttccttt 120
tggtctttat tgcagatatt caagagaagc ttatgtggag ttagttcacc atattagaga 180
atctattcca ggtgtgagcc tcagcagcga tttcattgct ggcttttgtg gtgagacgga 240
ggaagatcac gtccagacag tctctttgct ccgggaagtt cagtacaaca tgggcttcct 300
ctttgcctac agcatgagac agaagacacg ggcataatcat aggctgaagg atgatgtccc 360
ggaagaggta aaattaaggc gttcggagga actcgag 397

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<210> 1159  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (30)

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 gctaagaaca gaagcaagt ctggagattt actgagaggt tacacttggt gaagatgaag 180  
 tgtagcggca tcctcgag 198

<210> 1160  
 <211> 186  
 <212> DNA  
 <213> Homo sapiens

<400> 1160  
 gaattcgcgg ccgcgtcgac attaaagggt aagttctgca aatgggagag tgttcacagt 60  
 agatagctca gattgattga acacatttga ggaagagact cctgcatgag ataccagcat 120  
 ttttacaat actttttatg tacattcttt attttgtcat tttgtcaacc ctctcccaa 180  
 ctcgag 186

<210> 1161  
 <211> 298  
 <212> DNA  
 <213> Homo sapiens

<400> 1161  
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 gctgtcccta ctgcctggtg gagggggaac ttgacctctg ggagggcgcc gctcttgcat 180  
 agctgagcga gcccggtgct gctggtctgt gtggaaggag gaaggcaggg agaggtagaa 240  
 ggggtggagg agtcaggagg aataggccgc agcagccctg gaaatgatgc aactcgag 298

<210> 1162  
 <211> 224  
 <212> DNA  
 <213> Homo sapiens

<400> 1162  
 gaattcgcgg ccgcgtcgac gccagttata gactgtccag catccaagac gtttcggtta 60  
 tgtcgggtcc tcagatcgcc tctgacttgt taccacaaca aatcattttg atttcagtgc 120  
 ctgttgggga cttgatttct tctcagtttt gtttgtttgt ttgtttcctt aatctggctc 180  
 atttgaaatt tcttctccct ctcaaccatc ccactaatct cgag 224

<210> 1163  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

<400> 1163  
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 tggagatatt aacagtgaac actgtcaagc agacacctaa ccacatcccc tcaacgatca 120  
 tggcaaccac ccagcctcca gtagaaacca ctgttcctga gatccaggat agcttcccat 180  
 accgtctgtc tgaagacttc tttggacagg aaggccccgg gccagggtgca agtgaggagc 240  
 ttcatccac cttggagtcg tgtgtggggg acggatgtcc tggcctcagc agaggccctg 300

tgatcgccct cgag

314

&lt;210&gt; 1164

&lt;211&gt; 219

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1164

gaattcgcg cgcgctcgac gtaataaatt attcactgtt tcttttggtta actgtgattt 60  
aaaaaaagaa aaaagaaaaa aaagctttat acgttttagg ttgtgctttt gtaatagatg 120  
aaaaaagggtg cgcttaaaaa gaaaatgtat gtttttttcc ccctttggat tttatttatg 180  
ctggattggg gaaagttgca gaatgagcgc caactcgag 219

&lt;210&gt; 1165

&lt;211&gt; 174

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1165

gaattcgcg cgcgctcgac atccctcagt gaacatttgg gttgcttcca ccttttaact 60  
tgtgtagctt tttttggggg gatattttgg ctctcaaaag gacaaaggaa aaaattaggt 120  
tcagttgcta ggattactca catgagggta ggcattgggca ggaccatact cgag 174

&lt;210&gt; 1166

&lt;211&gt; 221

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1166

gaattcgcg cgcgctcgac gatacttatt gctgcctctg caccaatatg ctttccgaag 60  
tgctgttgtt tctctctcaa tatttgacac tttgtggtga tatccaaacta atgctggccc 120  
agaatgcaaa taatagagca gcacaccttg aagagtttca ttaccaaaca aaagaagacc 180  
aggagatcct gcatagcctt cacagagagt ccacctcga g 221

&lt;210&gt; 1167

&lt;211&gt; 118

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1167

gaattcgcg cgcgctcgac tgggttttca catgctattt caggcttgcc ttttttatct 60  
gtattttctt gtagcagttt gtcgacctga gaaatggcct cttcccagca atctcgag 118

&lt;210&gt; 1168

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1168

gaattcaaca agaggcagtt ctttactaat caacatataa cttgaatacc tgggcaaaga 60  
caaattatct aggtggacaa agaaataaat gaataaaagt gggattcaaa tttttgattt 120  
cataagtctg gaaataagta atcaagaaac ctaactaata aaccacacaa tcaactgattt 180  
gcaaacttga acaccaaaga aaaagataat ttatggtaac tatattcatt tttttgttc 240  
tcctata 248

&lt;210&gt; 1169

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1169  
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caaggtttgt aaatgagaaa agacgtgagg ttccctttgt tctttacctg tggcctccct 120  
gccctacacg gggactctag ggtggaatgt agcaaagccc atccaccagc catgtactac 180  
cccccccgcg tcgag 195

<210> 1170  
<211> 222  
<212> DNA  
<213> Homo sapiens

<400> 1170  
gaattcgcgg ccgcgtcgac gtggtggaca gctgtagtga taatgttgat agtaggtata 60  
ataacaccag tgttttattt gttgtattat gaaatttttag ctaaggtgga tgtagtcat 120  
cattcaacag tggactcttc acattttacat tcaaaaatca ccccccatc acagcagaga 180  
gaaatggaaa atggaattgt gccaaactaaa ggaataactcg ag 222

<210> 1171  
<211> 314  
<212> DNA  
<213> Homo sapiens

<400> 1171  
gaattcgcgg ccgcgtcgac tagaagaaac ccagaaatc agtcttttct gttttattgg 60  
cagtggctag catgtttctt ggttcaacta aagttcgaag caggcccata agctggactg 120  
ctctccaag ttcaggatct gtatcacaaa tcatatgttc tataatgagg ttgatgagca 180  
aaatatectt gctgggtatt ttttgctctg ttaacttctt acttacatca tcattctggt 240  
gtgcctctcg catgacaaac tctcgtacca tggatggatt atattcaacc aagtatgaga 300  
atatatcact cgag 314

<210> 1172  
<211> 177  
<212> DNA  
<213> Homo sapiens

<400> 1172  
ggaattcgcg gccgcgtcga cgcatttatt aaccagagta cttgtttgca attttttatc 60  
tgtgaaaata ttttaaagct cttacaaaac ttaaaatttt aaaaaatcag ctcaaaaatt 120  
ttttccatgt tgttgggcat accactgctg tctctgcttt cggtttccca actcgag 177

<210> 1173  
<211> 232  
<212> DNA  
<213> Homo sapiens

<400> 1173  
gaattcgcgg ccgcgtcgac gtttggagaa cctgtgtgaa aatccatact ttagcaatct 60  
aaggcaaaac atgaaagacc ttatcctact ttgggccaca gtagcttcca gtgtgccgaa 120  
ctttaaacac ttcggatttt accgtagcaa tccagaacag attaatgaaa ttcacaatca 180  
aagtttgcca caggaaattg caaggcactg catggttcag gccagctcg ag 232

<210> 1174  
<211> 252  
<212> DNA  
<213> Homo sapiens

<400> 1174  
gaattcgcgg ccgcgtcgac ccagactata tagttcaaag agaattccta ttttctgta 60  
ggatgcaac aaaacaatgc agtttgattt atatcgtatt ttgtattgta ttatatgatg 120  
ggtctcactc tgttaccag tctagagtgc agtggcacga tcacagctca ctgcagcctt 180

gacctgccag tctcaagcaa tctctctacc tcagcctccc aagtagctga gaccacaggc 240  
actcaactcg ag 252

<210> 1175  
<211> 464  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (13)..(14)

<400> 1175  
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acacagccat gccctactta acttcttatg gacagctgag caacggagag cccacttcc 180  
taccagatgc aatgtttggg caaccaggag ccctaggtag cactccattt cttggtcagc 240  
atggttttaa tttctttccc agtgggattg acttctcagc atggggaaat aacagttctc 300  
agggacagtc tactcagagc tctggatata gtagcaatta tgcttatgca cctagctcct 360  
taggtggagc catgattgat ggacagtcag cttttgcaa tgagaccctc aataaggctc 420  
ctggcatgaa tactatagac caagggatgg cagcaacact cgag 464

<210> 1176  
<211> 170  
<212> DNA  
<213> Homo sapiens

<400> 1176  
gaattcgcg cgcgctcgac ctttgggtat catatcctga atatatgaag ttcattaagc 60  
actttctcct catctccctt agaaggctct ctttctcca ggggtggggt ggggaagagc 120  
tgacaggaca ccctaagtcc atcctgattt tgcagaacct aaggctcgag 170

<210> 1177  
<211> 207  
<212> DNA  
<213> Homo sapiens

<400> 1177  
gaattcgcg cgcgctcgac gtgattgtgt tttttaaaag ataagtaatt tgatgaactg 60  
ttcttttgca gtcagaaaac actcacaaa agacaaaaaa agttccacag tattatattt 120  
catgtcagtt caggcctaaa atcctttgca aataagatgt ttataggctg gtcacaatta 180  
acaatgttat tattggcaac actcgag 207

<210> 1178  
<211> 163  
<212> DNA  
<213> Homo sapiens

<400> 1178  
gaattcgcg cgcgctcgac attgaattct agacttgctt ctctctctc ctctaccctc 60  
acttctaagt actaggtaca tttctacctt gctttcaatt ctaccttgcg ggtgttttcc 120  
attagtcatt tttttcccat tgtctcttac cacacaactc gag 163

<210> 1179  
<211> 313  
<212> DNA  
<213> Homo sapiens

<400> 1179  
gaattcgcg cgcgctcgac caaagatgtg taaaaattt tatcttttca gccctcaa 60

```

attgattttg aacattatct tgcaaagagt actaagtggg tggtagttg agatagagga 120
atatgcagct tttgactatc tttcctttcc cgtcagtacc agctttcatg atacaatttc 180
ctcttatcac tttggtcaag aggtggggca gaaaattttg agttacagta tcattcgaag 240
agaatttatt tctgcctttc atgttatagc ccctaaggga tccaggaccc gaaaggccag 300
cttctccctc gag 313

```

&lt;210&gt; 1180

&lt;211&gt; 227

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1180

```

gaattcgagg ccgcgtcgac ggcatagata agtttatgga agacctaaaa gatatgctgg 60
gctttgctcc cagcagatat tactactata tgtggaaata tattttctct ctaatgctat 120
tatcattgct aatagctagt gttgtgaata tgggattaag tctcctggc tataacgcac 180
ggattgaaga taaggcatct gaagaatttc tgagctatcc actcgag 227

```

&lt;210&gt; 1181

&lt;211&gt; 253

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1181

```

gaattcgagg ccgcgtcgac atttgccaca aacgctgtta actggactca cacatactat 60
gtgtacctta atgatttatt tactctatgg acagttatta gaacatctgg tatgtggcca 120
cccggtcgga gccaggaga ttagggcgtg ggggctgcag tgcagcctt cccgggagtg 180
cacggtcagg ccagggaccg gggtcccctg ggagctgtgc ttcagaagct tactgactga 240
tgaaagcctc gag 253

```

&lt;210&gt; 1182

&lt;211&gt; 153

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1182

```

gaattcgagg ccgcgtcgac cttctatata actgaaatag ttccttgaac atttgataaa 60
gttttcctta gaaagaaact ggatttgggt cttcattagt aatagttaac tgatcacatg 120
ctaatttttc cctgttctct gtatttactc gag 153

```

&lt;210&gt; 1183

&lt;211&gt; 158

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1183

```

gaattcgagg ccgcgtcgac caggcatcca caaaagaaga ccaagctttg tccaaagagg 60
aagagatgga gactgagtca gatgcagagg tagaatgtga cctgagcaat atggaaatca 120
ctgaagagct ccgccagtac tttgcaaagt cgctcgag 158

```

&lt;210&gt; 1184

&lt;211&gt; 249

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1184

```

gaattcgagg ccgcgtcgac gtccaagtc tccattatca tttgttacag gctattcttc 60
tactgaattg cttttgctcc tttgcaaaa gtcagataga tgtatttgtg tgggttggtt 120
gctgggtttt tgaattcttt tctgttgatc tctgtgtctg ttcctctgtc tataccacac 180
tgtcttggtt actgtagctc tagtgatagg tcttcacatc aagcaagaat gctcactgcc 240
cccctcgag 249

```

<210> 1185  
 <211> 151  
 <212> DNA  
 <213> Homo sapiens

<400> 1185  
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 taaccctatc tctacaaaa aaagaaaaaa aaaaacaaaa aaaaacttag ctaggtgtgg 120  
 tggcatgcgc ctgtgtgtccc ggctactcga g 151

<210> 1186  
 <211> 267  
 <212> DNA  
 <213> Homo sapiens

<400> 1186  
 gaattcgcgg ccgcgtcgac gtttatttca cagcactgag gaggaccagc atgcattctt 60  
 ctcttaacac aagtccgaat caacaacctg aactaactt ggctcatgtt ggagctcaca 120  
 gttttgttac agaaaatatt attgggggat ctgaacaatg ttttgaacag cttcagccag 180  
 aatattcttc acaggaggag agccagcatg ctgatctacc aagtattttt agcattgaag 240  
 caagagattc ttcccaaggc actcgag 267

<210> 1187  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<400> 1187  
 gaattcgcgg ccgcgtcgac cgatgacgac gaggaggaga agctcacccc agtgaggcca 60  
 ggggggttcg tggccgtggt ctgtcccgtg aggctttttc ggcagacggg gcagctgtcg 120  
 tgcgtctcca gccaggcac gatgcagccg tcgtggaaca ggtggttgca gggcagctgc 180  
 cgcacacgct caccagcgc gtagtcgtcc ttgcacacag ggcactcgag 230

<210> 1188  
 <211> 184  
 <212> DNA  
 <213> Homo sapiens

<400> 1188  
 gaattcgtgg ccgcgtcgac cttgtagaga gtgacaaggt attgtttgtt tccctatgtg 60  
 ctgtttgagc agtattttaa ccaacttgta ttacagatgt tacagttcca tgtaggaag 120  
 tcagaaaaga cttgtgtttg tctttgttct gctgatgtgg agtcatgttt ggtggggtct 180  
 cgag 184

<210> 1189  
 <211> 201  
 <212> DNA  
 <213> Homo sapiens

<400> 1189  
 gaattcgcgg ccgcgtcgac ggtttagtcc tcaagaagtc ttggctatta aggggcactt 60  
 atccatacaa cctctacttt ttctaggcac taaaaggggg aaaaggctta atagccaaaa 120  
 tagttatcaa aagacctaa agctggggtc ctgtacacca tgaaaggatt actttcattc 180  
 tcatgtaagg gactactcga g 201

<210> 1190  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 1190

```

gaattcgcgg ccgcgtcgac cttggagaac agacttaata tgatccagtc ttcctatatt 60
tatattatatt tggtagacat ggggggtcttg tctctctgtg ttgcacaccc aggcctcgtct 120
ccagctcctg gtgtgtccag aattgggtcc ttccagtggg ttcttgggtc cgctgacttt 180
aagaataaag ccgcggaccc tcgaagtgag tgttacagtt ctctcgag 228

```

&lt;210&gt; 1191

&lt;211&gt; 276

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1191

```

gaattcgcgg ccgcgtcgac cgagttgatg gggtccttgg acatatgttt tttcaaaatt 60
tttgaagcct tttcaaattc ttgttttttg atacaaataa tgacagcagc ttccttgacc 120
agttttctac tggattcgac cactgcttct gtcagtgtaa attccgtttt aatcatctcc 180
agcacattga tagctgattc cagtgggtgtg agctcagcct ccatatcaaa ggaacagtct 240
aaattttccc cttcttcaat ccgcgacaga ctcgag 276

```

&lt;210&gt; 1192

&lt;211&gt; 196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1192

```

gaattcgcgg ccgcgtcgac cagaacttta ttttagctct tttttaaaaa tgatttgcat 60
ggttagaaaa cggcgaggac agccagggga gggaagggcc tctagggaac ttgcacttt 120
ctataccttt gtactatgca ctgccctatt gattctacac ccaataatga tattacttga 180
acccatccac ctcgag 196

```

&lt;210&gt; 1193

&lt;211&gt; 315

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1193

```

gaattcgcgg ccgcgtcgac ttcctcgatc atttcaaaga tgcctaaagc agatttctat 60
gttctggaaa aaacaggact ttccattcag aactcatctc tgtttccaat actgttacat 120
tttcataatca tggagccat gctgtatgcc ttattaaata aaacttttgc ccaggatggg 180
cagcatcagg tgctgagcat gaatcgaaat gcagtgggga agcattttga actgatgatt 240
ggtgactccc ggactagtgg aaaagagcta gtgaagcagt ttctcttcga ttctatacag 300
aaggcgatc tcgag 315

```

&lt;210&gt; 1194

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1194

```

gaattcgcgg ccgcgtcgac ccatcagtga aggaaccatc caaaactgct aaacagaaaa 60
ggagaactat aattctagga agtgggtcaca aaggaaaagc tactattaga attggattgg 120
ctacaaagaa acctgtaagt agtggcagaa aacactccct tggtaaagaa tattatgcgc 180
ccgcacctct tccacctggt gtgtctggtt tcttgccgtg gcgtactgca gaacgtgcaa 240
aaagacacag gggtttccct cgag 264

```

&lt;210&gt; 1195

&lt;211&gt; 210

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1195

gaattcgcg cgcgctcgac gaggatagca ggcgtaaata cctactgtaa tacaatgtca 60  
 ctgtgtttcc tctgcactgt tcccttccac ttcctcatcc tctttgtgac atggaagttc 120  
 attgtcatag ctccagcttc agaagctgt tgtggcattt gtaggattca aactcatgga 180  
 aaattccctc ctcttcccc cccactcgag 210

<210> 1196

<211> 207

<212> DNA

<213> Homo sapiens

<400> 1196

gaattcgcg cgcgctcgac ccccccgcca ccctctgtct caagccaatc aaccagtcac 60  
 caagtcctat caatgctatt gctgaaattt ctcttgaatc catctacttc tttccacgtc 120  
 cacagccacc atcctacccc cagccttcc ctctcttttc ttgatgatgg catgacctcc 180  
 taccagttt cccggcaact actcgag 207

<210> 1197

<211> 272

<212> DNA

<213> Homo sapiens

<400> 1197

gaattcgcg cgcgctcgac cgcctccctac atttaccttc cttatatctc ccccgctcttc 60  
 ctctccatag atctcctccc atttcccttc ccatgggtccc catcttcctt ctgaaatgtc 120  
 tactccttca tgttccttta tgtatgtctt ccaatctttc cttccatagc tctcatcacc 180  
 ttcatatatt tcttccatct ttctcctccc acctgctctg cctctgtat ataccctcc 240  
 tctccctctt ttatatcttc tccacactcg ag 272

<210> 1198

<211> 263

<212> DNA

<213> Homo sapiens

<400> 1198

gaattcgcg cgcgctcgac cattgagaga gggaggaaag ttttatcatg acagaaatgc 60  
 tcatactctg aggatataat agagagtga tacttgaggg tagaattaat caaacaactc 120  
 ttcttgatgc tggatatttt agcctaaagg aaaatataat acatgagttt agctttta 180  
 gtttcaacag cttcactgat tgtccagaag tcattgtgtg cccactttcc tcatgtgttc 240  
 atctattgcc agtgttcctc gag 263

<210> 1199

<211> 343

<212> DNA

<213> Homo sapiens

<400> 1199

gaattcgcg cgcgctcgac ctcggcggt gagcgcgccc gacagcagct agaggcgctg 60  
 ctcaacaaga ctatgcgcat tcgcatgaca gatggacgga cactggctcg ctgcttctc 120  
 tgcactgacc gtgactgcaa tgtcatctcg ggctcggcgc aggagttcct caagccgtcg 180  
 ggtcagtgcc cggggaatgc acaccgcct ggtaatgtgg cggaacctta cgcaaggcat 240  
 tcccccttaa gggcctggct gcaacccttg ttttctgggg ctcgttttctg tggctcagag 300  
 gggcgggact gattctggcc tactttctcg acactcactc gag 343

<210> 1200

<211> 187

<212> DNA

<213> Homo sapiens

<400> 1200

gaattcgcg cgcgctcgac ccaagattct gtaggattt ctgtgcatat agttagtaga 60

agaagtatca ttcaggggtg aaaaacaaag agccgtttta atgatgttga gtacatttgg 120  
 ctgttttata gcctttttct tccctccccc aaagaattct gtttgcctaa ctcccaaca 180  
 gctcgag 187

<210> 1201

<211> 261

<212> DNA

<213> Homo sapiens

<400> 1201

gaattcgcg cgcgctcgac ctgacctttg aagatatccc tggaattccc aagcaaggca 60  
 atgcaagttc ctccaccttg ctccaaggta ctgggaatgg cgttcctgcc actcaccctc 120  
 accttttgtc tggctcctct tgcctctctc ctgccttcca tctggggccc aacaccagcc 180  
 agctgtgtag tctggccctt gctgactatt ctgcctgtgc ccgctcagge ctcaccctca 240  
 accgatacag cgcattctga g 261

<210> 1202

<211> 280

<212> DNA

<213> Homo sapiens

<400> 1202

gaattcgcg cgcgctcgac cttgatccag cctgggtaac aaagcaagag cctgtctaaa 60  
 aaaaaaaaa agccagggtta ttttggttg ttttggttt ttttccctt tctcagttac 120  
 tcattccttt tagattgaag gattgatgca tttatttatt tatttattct tttaccaagc 180  
 ctcatgtact ttatgttttg agaagaggat tctgctaaat tcttgggatt attcagaggc 240  
 ttatacacca acaaagaaaa aagaaagcca acaactcgag 280

<210> 1203

<211> 155

<212> DNA

<213> Homo sapiens

<400> 1203

gaattcgcg cgcgctcgac aaaaaaaaa agaagtactt cacattactg tcatcaaaag 60  
 tagattccac caccagagta tttgcaactt ggaatccagg ctgctaataa ttgttttggg 120  
 aggaaagcat gatagtgtta ggattcgac tcgag 155

<210> 1204

<211> 307

<212> DNA

<213> Homo sapiens

<400> 1204

gaattcgcg cgcgctcgac gttttgttat ataggtaa atctgtccgcg gtggtttgc 60  
 gccctatca atccatcagc taggtattaa tcgtccatct tttaaagtc actttaactt 120  
 ccacttttcc atgaagcttt tctgatctt cctcctcctt ccatacctgga aaatccttgc 180  
 agtttgttct gcagcatcac acctagtgtc tagccatccc tactttgtcc ctacactttt 240  
 tgaattgctt accaacaact tagagaggga gctagagatt gttgctggcc attgctccaa 300  
 actcgag 307

<210> 1205

<211> 586

<212> DNA

<213> Homo sapiens

<400> 1205

gaattcgcg cgcgctcgac agagaaatga aacggaagag aaaaaaagga gtttctgccc 60  
 ttcagagaga gctcaactgc ctgtgtgttg ctcagcctcc cttccctgtt cacaaaaagt 120  
 caaagtcac acctcaaact caaatctatt tttaaataag aaagaaggcc agtgaagagg 180

```

ggcaggcaag atgtggccaa ggaaggcatt ggggaaaagg taacatttgt actgggagtt 240
tggtagatga agaaggtaag aaggagaagt acagacagtt aaagatggca ttgaaattcc 300
agagtcccgaggaggagtt tgcaggggaca gcagggtggca cttgatgagt tagaatttca 360
gatgtgatga gtttgaagca cctgggagggc atctaagtag acatgattac cagacacctg 420
gagctgaata agaggtcctg gagatattga ttttagagtg attgttctct catccatgta 480
tccattcatt caccagggca agggaaatgt gtacagtacc tactctaggg aggccttatg 540
ctggatattg ggaatacaat gatgaacaaa acagatgccg ctcgag 586

```

&lt;210&gt; 1206

&lt;211&gt; 276

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1206

```

gaattcgcgg ccgcgtcgac gcctcgatca ctgcatttgc acaggggtgaa gtctgtgtgc 60
ggcaagtgg tgagggcctt cagcaggatc tgggcggtga ccgtggtctg aaagaaggct 120
gggttgaact ggtacagctt caggacagcc aggttggctt ccagatcata ggcattttcc 180
ttggcctgcg tctctacata gcgctccagg gtggccagggt tctcaggatt gtacctgtcg 240
ataccctcgt cgattgaatt ctacacctgc ctcgag 276

```

&lt;210&gt; 1207

&lt;211&gt; 218

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1207

```

gaattcgcgg ccgcgtcgac attgtgttag cctgttccct gagctctctt cgtgatcaag 60
aagactgac agataaatca agagacttgc ccaaaattac ctaggaaatc tgtagcagca 120
gcagaaccaa actccggtcc ttgctaaatc tagataccag gctagctttt ctatggacc 180
agaattaacc catacaaatg tacaagctta tcctcgag 218

```

&lt;210&gt; 1208

&lt;211&gt; 398

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1208

```

gaattcgcgg ccgcgtcgac ccgagcctca gttgtcttct ctgtgaggtg ggaatgccgg 60
tgaatcctgc cgctggcgtg gatgagaagt gaatgcgtgc tcggagctgc gagtgcagc 120
gggcaggagg cgcccaggga cacttggttt ctccagggtt ggaaggcttc tagaagggtc 180
ctcatcaagg gaagtgtggc tgggggagcc gtctacctgg tgtacgacca ggagctgctg 240
gggcccagcg acaagagcca ggcagcccta cagaaggctg gggaggtggt ccccccgcc 300
atgtaccagt tcagccagta cgtgtgtcag cagacaggcc tgcagatacc ccagctccca 360
gccctcccaa agatttactt tcccatccat cactcgag 398

```

&lt;210&gt; 1209

&lt;211&gt; 456

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1209

```

gaattcgcgg ccgcgtcgac agaagggtat actcccatta gggcctgctt tgcttatgca 60
tgtgtgtgca catgcatgta aaccagggtt cttcagctca cggcctccag gcctgggcca 120
gtctcttctg ctctgcccgt ctcccccgac tggctgtgtc ctgagtaact ggaacatgag 180
actgtatctg caggactggc cccatgggtg ccgagtcaga agtctgtttc ctgtgagtcg 240
ccaccgttca ctacgtcttg cctcccatg ctttgagacc agtctggttg ctctgtgaag 300
gttctcaagg ctggtggcag ctacgtcttg ggtcaggaca tgtcggggtc atgcgtttct 360
ggccctgaca taagtgtct ggctctctg tgacatgatg aaattgaaat caatccacag 420
tccatgaaat tgtgacactc caccagatat ctcgag 456

```

<210> 1210  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<400> 1210  
 gctcgagggtc catatggata atcttcaagg gtaaattcac tgagatgaac tgcaaactcc 60  
 cctttccaca tgcagcagca ggacatacat gtccctgatgg gtttgtgtaa ccctgccaga 120  
 atggctggca ggacaagtta actatcattc ccttcacaaa tcagtcagtc aggaaatccc 180  
 tacgtgggaa ggatcacagg gcctacaaag aggcagtgac agcaaaactt cagctgctat 240  
 tgaatctgaa tgcatttctg gttttttaac cagatcccca gcaagtaatt ttaacagccc 300  
 gtaaatgtag agtatgctag actatgagga cacagatgcc cagcccagtg tggggggtaa 360  
 gttctacact gcactgtcct tccacagggc ccctcagggg cactcgag 408

<210> 1211  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

<400> 1211  
 gaattcgcgg cgcgctcgac attacaatta tcatgtctac acttaatagt atattctatg 60  
 tccctctggc tgtctatctt gatcaagtca ttccagggga atttggctta cggagatcat 120  
 ctttatattt tctgaagcct tcatattggg caaagagcaa aagaaattat gaggagtatt 180  
 cagagggcaa tgtaaatgga aatattagtt ttagtgaaat tattgagcca gtttcttcag 240  
 aatttgtagg aaaagaagcc ataagaatta gtggtattca gaagacatac agaaagaagg 300  
 gtgaaaatgt ggaggctttg agaaatttgc catttgacat atatgagggt cagattactg 360  
 ccttacttgg ccacagtgaac acactcgag 389

<210> 1212  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 1212  
 gaattcgcgg cgcgctcgac cccgcctcag cctccgaaag tgctgggagt acagggtgta 60  
 gccactgcgc ctggcctcat tgtactcctt aacacaagaa gacttcaaca atgataagta 120  
 gttgtttata aggaagcagg atcattacca aaataaatcc tgctaaaaca acaggaatca 180  
 tgttttaaag cctagtttgc taatttttgc tagtaggata agagtgatcg taatatctcg 240  
 aacattacat agacacttaa aaccttttagt tgtatttcat caaaaatctg ttcatacccc 300  
 acgttggttt caaaacatac tatgcttttt cttcgtgtta tttcctatat tcatttttgt 360  
 gtgtatgtgt atgtcacaaa tattgatatg cctgggctcg ag 402

<210> 1213  
 <211> 168  
 <212> DNA  
 <213> Homo sapiens

<400> 1213  
 gaattcgcgg cgcgctcgac gactgtgatg ggcgtgttct ggggcttcgt cggtctcttg 60  
 gtgccttggt tcatccctaa gggcctaac cggggaggtta tcattaccat gttggtgacc 120  
 tgttcagttt gctgctatct ctttggctg attgcagcaa acctcgag 168

<210> 1214  
 <211> 180  
 <212> DNA  
 <213> Homo sapiens

<400> 1214  
 gaattcgcgg cgcgctcgac caaaaaagtc cttttgaaaa agttgatgat gatgattttt 60  
 acatcagaga atatcttttag atcacgttta agagatgatt actgggtgta tgtagatag 120

caagtactgt ggatggttta aggggtgaata ggaaatatct agatgttaag ggggtctcgag 180

<210> 1215

<211> 506

<212> DNA

<213> Homo sapiens

<400> 1215

```

gaattcgcgg ccgcgtcgac cagcaatccc tccctaggtc aatcgctccc aaacccttaa 60
ccatgagact ccccatgaac cagattgtca catcagtcac cattgcagcc aacatgccct 120
cgaacattgg ggctccactg ataagctcca tgggaacgac catgggtggc tcagcaccct 180
ccaccaagt gagtccttcg gtgcaaatcc agcagcagat gcagcagcag catttccagc 240
accacatgca gcagcacctg cagcagcagc agcagcatct ccagcagcaa attaatcaac 300
agcagctgca gcagcagctg cagcagcggc tccagctgca gcagctgcaa cacatgcagc 360
accagtctca gccttctcct cggcagcact cccctgtcgc ctctcagata acatccccc 420
tccctgccat cgggagcccc cagccagcct ctcagcagca ccagtcgcaa atacagtctc 480
agacacagac tcaagaatta ctcgag                                     506

```

<210> 1216

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1216

```

gaattcgcgg ccgcgtcgac gtaatttact aaggtttgaa atgggtattct aacagtgagt 60
ccattgtctt gaggattaat ctgatttata agtaatactg atagacatat ttctgtacat 120
ctgagcagaa ataaatgcat gtttctagca tatgtaatat aaaaactctc gag          173

```

<210> 1217

<211> 287

<212> DNA

<213> Homo sapiens

<400> 1217

```

gaattcgcgg ccgcgtcgac gaacggtaat tacattgaga tttttaaaaa tatataaatg 60
cttaaaatta cagaagtaat aaaaagaatg gtttttagaca aatcttatgg aaagtttttt 120
attttattct ttataatta tttttatgga tttttgtctt tattagtgtg gtaatatatt 180
ttataacgct cataaattga actttcaggc taatgtacta taaatatttg tattacgcat 240
tactaccatc ccaaatgtac caaaacacgt ttagagagaa cctcgag          287

```

<210> 1218

<211> 327

<212> DNA

<213> Homo sapiens

<400> 1218

```

gaattcgcgg ccgcgtcgac cgatcttcat gaatgcaata tttatgatgt gaaaaatgac 60
acaggattcc aggaaggcta tccttaccct tatcccata ccctgtactt actggacaaa 120
gccaaatttac gaccacaccg ccttcaacca gatcagctgc gggccaagat gatcctgttt 180
gcttttggca gtgccctggc tcaggcccg ctcctctatg ggaatgatgc caaggtcttg 240
gagcagcccg tgggtgggca gagcgtgggc acggatggac gtgtcttcca tttcctagt 300
tttcaactga atatcacaga cctcgag          327

```

<210> 1219

<211> 335

<212> DNA

<213> Homo sapiens

<400> 1219

```

gaattcgcgg ccgcgtcgac ccttgagggtg attcatcttc caggtctctc ttccatcaag 60

```

```

tctctcctcc ctagecgtctt gggtccttaa tggcagcagc cgccgctacc aagatccttc 120
tgtgcctccc gcttctgctc ctgctgtccg gctgggtccc ggctgggcca gccgacctc 180
actctctttg ctatgacatc accgtcatcc ctaagttcag acctggacca cgggtggtgtg 240
cgggttcaagg ccaggtggat gaaaagactt ttcttcaacta tgactgtggc aacaagacag 300
tcacacctgt cagtcacctg gagaagaaac tcgag 335

```

<210> 1220

<211> 228

<212> DNA

<213> Homo sapiens

<400> 1220

```

gaattcgcg cgcgctcgac cttgatttat aactaaaata tttaaacata cgggtgtgctg 60
gactccattt gtactcttac ccagggcctg caaatgttag gagctggcct gaccaaggga 120
ataaagatta cgaatgtt cactttattt tttttattt tttttattt ttttgagaca 180
gcgtctcgct ctgtcgccca ggctggaaag cagtggcaca atctcgag 228

```

<210> 1221

<211> 270

<212> DNA

<213> Homo sapiens

<400> 1221

```

gaattcgcg cgcgctcgac gtggtttaag aaaaaaacac ataaacaagt tcagacaact 60
gattgtatga ttctgggaat tctttgcttt cctttccttc tccctcggca ccacctctc 120
tcccagggc tccctgtcgg gcatggggag gaggttggag ctacgcatct tgaggaaatgt 180
gtcaagacag cccctccgct cgcgctgca cggccagcgg cctttgtccg ggaggacaga 240
cagaaacgca gcaaggcaca cactctcgag 270

```

<210> 1222

<211> 207

<212> DNA

<213> Homo sapiens

<400> 1222

```

gaattcgcg cgcgctcgac catcagcccg ccaagatggc gatgcaagcg gccaaagagg 60
cgaacattcg acttccacct gaagtaaatc ggatattgta tataagaaat ttgccataca 120
aaatcacagc tgaagaaatg tatgatata ttgggaaata tggacctatt cgtcaaatca 180
gagtggggaa cacaccaaca actcgag 207

```

<210> 1223

<211> 345

<212> DNA

<213> Homo sapiens

<400> 1223

```

gaattcgcg cgcgctcgac ctcccttagc ccactgggtc atatgcgtgt caccacacgt 60
gaactagtgt ggtggctgcc tgcggacacc ctccgtttct gagccctggg cctgtgttct 120
tctcagacac tcccagactg aggggtggtg tgtggcgggt ggcaggggtg ctgtggagac 180
tggtgatctg gagcctggtg ctggcacctg gcctgagttt ccgtgggcag ctggcgggga 240
cctgtgctgc tgcctgctgac tgtgggtggg cgggcggcgc ctgggagtggt ctcttgcctca 300
ggaattgata ggaaccctaa cgactaggat acccccagac tcgag 345

```

<210> 1224

<211> 205

<212> DNA

<213> Homo sapiens

<400> 1224

```

gaattcgcg cgcgctcgac gctgattgag cctcttagat ctgtaggtta atatttttca 60

```

tcaaatttgg aaaatgcttg gccactatctt attcaaaatt tctgccccag tctctctcct 120  
 ctgcttctcg gactccagtt atatacgtaa gaacactgaa tgttgtctac aggtcgtgga 180  
 ggctttgtac tcccatccac tcgag 205

<210> 1225  
 <211> 534  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (171)

<220>  
 <221> unsure  
 <222> (173)

<220>  
 <221> unsure  
 <222> (175)

<400> 1225  
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 tatgccgtgc ccctcatcca gccagacctg cggtagagagg aggcctcca gcagatggca 120  
 gatgccctgc agtacctgca gaaggtctct ggagacatct tcagcaggtg ntntnccagt 180  
 gccaaagtacc ctgctccaga gcgcctgcag gaatatggct ccattcttcac gggcgcccag 240  
 gaccttgccc tgcagagacg ccccgccac aggatccaga gcaagcaccg cccctggac 300  
 gagcgggccc tgcaggtccc tgagaactac ttctatgtgc cagacctggg ccaggtgcct 360  
 gagattgatg tccatcceta cctgcctgac ctgcccggca ttgccaacga cctcatgtac 420  
 attgccgacc tgggccccgg cattgcccc tctgcccctg gcaccattcc agaactgccc 480  
 acctccaca ctgaggtagc cgagcctctc aagacctaca aaatggggct cgag 534

<210> 1226  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<400> 1226  
 gaattcgcgg ccgcgtcgac cttaatacag acgtaattac ctgttattaa aatattagga 60  
 aaatgaacat aagaaaaacg ttgagatcac tctcactctt gatgttgggc gtgggagggg 120  
 tgccagccgt cattccttg cgggtccct tctcccgtg gaggaggggt gactccacc 180  
 acctccccgg cgtgggtctc ttgagttcct cccggtttcc ccattcgaa cctcactgtg 240  
 atggaggctg tctctgcaag aagcatttcc tggttctccc tata 284

<210> 1227  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<400> 1227  
 gaattcgcgg ccgcgtcgac gtgcgtgctc cttggtttgt tccacctgcc tcctcgcatc 60  
 ttcaatggca ctctccaact gccttgccag ggtccacat tcccggtttt tctcctccag 120  
 ccgcagctgg gactggtgga ttgcctctc cctcttgga atcacctgta ggaactcgat 180  
 attctgggca ctggtgcct ccagtttctc ctccagttca tccaccttcg ctcgag 236

<210> 1228  
 <211> 161  
 <212> DNA  
 <213> Homo sapiens

<400> 1228  
 gaattcgcgg ccgcgctcgac atttttggtg caagcctggg tcgtcttttc tatgcacatg 60  
 gggcagctat tttagaaaca cttggagtgc tttgtatgta gtcccgcatc ccatcttttt 120  
 catttgacat cacgtggtgg gaatttcac aacatctcga g 161

<210> 1229  
 <211> 237  
 <212> DNA  
 <213> Homo sapiens

<400> 1229  
 gaattcgcgg ccgcgctcgac gaaaaataat tagtggtata gtcttaagat ttgttttcta 60  
 aagttgatac tgtgggttat ttttgtgaac agcctgatgt ttgggacctt ttttctctca 120  
 aataaacaag tccttattaa accaggaatt tggagaaaaa aaaaaccctg gttttttatt 180  
 tttgtatttt attattgttt acttcaaact ttgttttaca gcgtcccca gctcgag 237

<210> 1230  
 <211> 153  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (7)

<220>  
 <221> unsure  
 <222> (14)

<220>  
 <221> unsure  
 <222> (104)

<400> 1230  
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 tgggaagaca acacttctga actatatatt gacagagcaa catngtaaaa gagtagcggt 120  
 cattttaaat gaatctgggg aaggcaactc gag 153

<210> 1231  
 <211> 217  
 <212> DNA  
 <213> Homo sapiens

<400> 1231  
 gaattcgcgg ccgcgctcgac atttgaatac catattattt ctttctattt gggtaatgat 60  
 cgggttaata ggattcttta cttacatagt aggtgtggaa aaggtgggtt ttacttattt 120  
 attttttttt agacagtctt actctgtcac tcaggctgga gtacagtggc gtgacctcag 180  
 ctcaactgcaa cctccacctc ccgggttcaa gctcgag 217

<210> 1232  
 <211> 201  
 <212> DNA  
 <213> Homo sapiens

<400> 1232  
 gaattcgcgg ccgcgctcgac cggaatctcc tctgtgaatt ccacctgect agttctcccc 60  
 tttcatcctc tctctcttcc cacatcatca aagaggaaaa gctctttgtt caaaaggag 120  
 agaaaacgta aagcatctta ttttctttta aaagaatttt aaacctgaa aaagatat 180  
 ttaaagaat tcacgctcga g 201

&lt;210&gt; 1233

&lt;211&gt; 160

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1233

```

gaattcggcc aaagaggcct agagcttagt gtgtaaaatg ttgaggctct tcgttcaggt 60
catttctctg acagggacaa gactgtcgtt tcagcagctg cagcggaagg ttggtgatct 120
tcattctcag gcaggtctag aattcgaggt tctccctata 160

```

&lt;210&gt; 1234

&lt;211&gt; 330

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1234

```

gaattcggcc aaagaggcct acttttgggt catgtaagt ctacccgttg ctgggggagg 60
agtcattggt tatgtgaaa tgtcagttgc aatcatggt ctgtcatttg actgcacagt 120
atcagaggag cctgttaacc tctctgtggt ttagtttctt agcccatgaa agagatcatt 180
gcctgaccca gggactacct caagggtctt tgatgaggac aagtgcacagt aggaagatgc 240
aagagccttt agtaccgaag ttctcaacac tgactacatg ctggaatgac tgtgaagctt 300
ttaaaaaatg ttagtgccca cttcctcgag 330

```

&lt;210&gt; 1235

&lt;211&gt; 493

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (15)

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (107)

&lt;400&gt; 1235

```

gaattcggcc aaagnggcct agttgaagac gacaccacgg ctttgatgga atatcagata 60
ttgaaaatgt ctctctgcct gttcatcctt ctgtttctca cacctgngta ttttatgcat 120
ttgtcctctc caatgtatat gcacagagag gcacaggcat gtggactgtt caggcagaaa 180
cttgtctaca ttaccatctg gactgcaaga gaattattata catttaaacc tgtcttataa 240
ccactttact gatctgcata accagttaac ccaatatacc aatctgagga ccctggacat 300
ttcaaaacaa aggcctgaaa gcctgcctgc tcacttacct cggctctctgt ggaacatgct 360
tgctgctaac aacaacatta aacttcttga caaatctgat actgcttata agtggaatct 420
taaatactct gatgtttcta agaacatgct ggaaaagggt gtccctcatta aaaatacact 480
aagaagtctc gag 493

```

&lt;210&gt; 1236

&lt;211&gt; 381

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1236

```

gaattcggcc aaagaggcct agataaatct tcattcatggg ggctctcctg tgtattgcag 60
gatagaataa agagtctgac tctgtttttt atcattgacc accgacaacg ttccagtcct 120
accaccctct atttccctct tgccccctcat ctgtgcaagc cttaactaag aaagcttgaa 180
ccatctctct cttggctcca gggggaagt caaaccaagc aaacacaggt ccatgggtgg 240
gaatcttcac cctagctcac ttcttaacca taataaaaac ccaagccaca ttcagactga 300
cttgggtctc tgcttgcac ttccagaaa gccttattat gtgagtaata aacctttgca 360
tacctccctg ttctccctat a 381

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<210> 1237  
 <211> 575  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (143)

<220>  
 <221> unsure  
 <222> (440)

<400> 1237  
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 aaaaaaaagg aaggggaaag aaatcatggc caaaaaaata ttatttaacc cccacccac 120  
 ccccaaagct ctatgccattc atntgagcat caccacatc ccactcattg cctgatattc 180  
 ggatgggtggc atactctgcc ccaggaaaac tgcctgaagg cacgggggca atgggtgcca 240  
 attttagctc tcagcaggtt agtcaaccag acaaaactggt gggctaaagt ccagaaattc 300  
 tttccaggtt ttctgctcat tggctgagca catacaaact gtcataagcc tgtaaaattt 360  
 aaggggagtt ggggtggggc gtaagagcaa aaggacagca ggagaagaga aattacgggt 420  
 caccaagtt ttctctgggn tagtggctct ggatatagat ttaaagagag gtcagagtaa 480  
 atggactcca ggtttcttat caaagaaaac tatccctcaa tgaggagctg agatgtgcca 540  
 tgcaagagag ttcttacctg caggttctcc ctata 575

<210> 1238  
 <211> 454  
 <212> DNA  
 <213> Homo sapiens

<400> 1238  
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 aagaactaaa actttcagca gaatgtcaga accacatctt catttggcag acacacaatg 120  
 ctttgtttat tatttgctgt ttgctgaaag tgttcattctg tcagatgtca gaggaggaat 180  
 tacaacttca ttttacttat gaagaaaaat ctcttgga ttacagttct gactcagaag 240  
 atcttttgga agaattgctg tgcgttttga tgcagttgat cactgatatt ccactcttag 300  
 atattacata tgaatatca gtagaagcta tatcaacaat ggttgttttc ctttctgccc 360  
 aactcttcca caaagaagtt ttgcgacaga gcacagcca caagtatttg atgcgaggtc 420  
 catgtcttcc atacaccagc aatttctccc tata 454

<210> 1239  
 <211> 356  
 <212> DNA  
 <213> Homo sapiens

<400> 1239  
 gaattcggcc aaagaggcct acagacggcg acagtggcgg cggcgccatg gcagggcttg 60  
 caggatccct gctgccttgg tgatcccggt ctgacagcca gagagcacag cggtcagct 120  
 cctggagagt gagggttgaa gaaagcggag ggcagccgcc tgcgcccgtt ggctccatt 180  
 aggtcgggtc ctgcagcggg gcccggcagc cttggtgaag gccctgcccg gcagagatca 240  
 tgtattgcct ccagtggctg ctgcccgtcc tctcatccc caagccctc aacccgccc 300  
 tgtggttcag ccactccatg ttcattgggt tctacctgct caacgttctc cctata 356

<210> 1240  
 <211> 419  
 <212> DNA  
 <213> Homo sapiens

<400> 1240  
 gaattcggcc aaagaggcct acctggcccg tgtggtggag ggctggaacc ggcatgaggg 60

tgagcggaca gaggttctca ggggacttca agaggaacac caggcagcag agctcaccag 120  
 aagcaagcag caggagacag taaccgcct ggaacaaagc ctttctgagg ccatggaggc 180  
 cctgaatcgt gagcaggaag gtgccagact gcagcaacgg gaaagagaga cactggagga 240  
 ggaaaggcaa gctctgactc tgaggttgga ggcagaacag cagcgggtgct gtgtcctgca 300  
 ggaagagcgg gatgcagctc gggctgggca actgagtgag catcgagagt tggagactct 360  
 tcgggctgcc ctagaagaag aacgacaaac gctcgaggca ggtctaggtt ctccctata 419

<210> 1241  
 <211> 696  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (16)

<220>  
 <221> unsure  
 <222> (18)

<220>  
 <221> unsure  
 <222> (108)

<220>  
 <221> unsure  
 <222> (112)

<220>  
 <221> unsure  
 <222> (133)

<400> 1241  
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 tactattcaa ctaagacaac taagaaaaat atattccaat aaaaaatnta anattacatt 120  
 atgaggggtga acntgactat ttaaaccaatc tgtacttta ttaattaatt aagaaccac 180  
 attagtaaaa aaaattttta aatccagatt agtattagga ctcttttaga atttgtctag 240  
 cagggttttcc agtttccacc agaaaaccat aaaaatactt atctattggg ttatcctgct 300  
 agacaaaaat cttagaaagc tctaaccatta atctagagtt tttaaaaggg caaattgtag 360  
 aatctaaaga gcaggatatc gaatatgtct tctattcatg tgaatggcag gtgtgtatgg 420  
 caaacttttc tcttctccag gtgttttgtc ctgatcaacc cttgttttcc ttatgggtcaa 480  
 atcagcatct tcagcaggca ctctgcacag aatcattggg ttcagaacat gatgccctgt 540  
 ttattcaaaa gaagagtctc attcagagaa acactaataa ttttggttaa atagctaata 600  
 ataattaact taaaaatatt tagttgtgac ttttatttaa acattaaaaa agagttaaag 660  
 caacatatga atatggtaaa aaatgttctc cctata 696

<210> 1242  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

<400> 1242  
 gaagctatca atttgatcac cagtctggta tctgctctac ctcccttcac tcacaactga 60  
 cttggaacca ataaaggagg gagtgcgaaat gcctatcttc cctctcaagt ttctccagac 120  
 tttactgcag cagcatgtgt cgctcctggc cctgctgtgc cateccctctg cctcctcacc 180  
 acatctctca ctcatagact cagggcttcc ctctgggtcag tactcccatg actccatgca 240  
 cctcgag 247

<210> 1243  
 <211> 349

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1243

```

ggaatgtaag ctctatgagg gcaaggactc ttgtcttggt tactgctgtg ttcttctagc 60
ataaacacac acacccctt agaacaattc tggatacaca atagaaattc agcaaagtgt 120
tggtgtaag aaatggccct aaaatactat tttaaaactt gttttctttc caggttatat 180
tttcttattt aatgtgtgta aaaatgtggt ggtatgaagt tttttggttt taaaaccttc 240
aatagtgaag ttttgtgggc acattgtatt cataagagct gttaattcta gccataactt 300
taaataaatg tattggttgc ttgtgtacat gactatctgt aaactcgag 349

```

&lt;210&gt; 1244

&lt;211&gt; 251

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1244

```

ggagcccacc gagaggcgcc tgcaggatga aagctctctg tctcctctc ctcctgtgcc 60
tggtgctgtt ggtgtctagc aagaccctgt gctccatgga agaagccatc aatgagagga 120
tccaggaggt cgccggctcc ctaatattta gggcaataag cagcattggc ctggagtggc 180
agagcgtcac ctccaggggg gacctggcta cttgcccccg aggcttcgcc gtcaccggct 240
gcaaactcga g 251

```

&lt;210&gt; 1245

&lt;211&gt; 528

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (89)

&lt;400&gt; 1245

```

gcttggccat ggtcgcttcc ttttttccaa tctctgtggc agtttttgcc ctaataaccc 60
tgcagggttg tactcaggac agttttatng ctgcagtgtg tgaacatgct gtcattttgc 120
caaataagaa cagaaacacc agtttctcag gaggatgcct tgaatctcat gaacgagaat 180
atagacattc tggagacagc gatcaagcag gcagctgagc aggggtgctc aatcattgtg 240
actccagaag atgcacttta tggatggaaa ttaccaggga aaactgtttt cccttatctg 300
gaggatatcc cagaccctca ggtgaactgg attccgtgtc aagaccccca cagatttggg 360
cacacaccag tacaagcaag actcagctgc ctggccaagg acaactctat ctatgtcttg 420
gcaattttgg gggacaaaaa gccatgtaat tcccgtagct ccacatgtcc tcctaattggc 480
tactttcaat acaataccaa tgtggtgtat aatacagtat tcctcgag 528

```

&lt;210&gt; 1246

&lt;211&gt; 257

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1246

```

gcaagaacat gaaacatctg tggttcgctc ttctcctggt ggcagctccc agatgggtcc 60
tgtcccaggt gcagctgcag gagtccggcc caggactggt gaggccttcg gagaccctgt 120
ccctcacctg cgctgtctct ggtgacccca tcagtcttta ttctggagc tggatccggc 180
aggccccagg gaagggactg gagtggattg gcactatcta taccactggg aatatcaacc 240
acaatccctc cctcgag 257

```

&lt;210&gt; 1247

&lt;211&gt; 162

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1247

gaattcgcg cgcgctcgac gtaagcaata tttagttaa aggcatttac aagtcataata 60  
acttaaatcat tttaaatgaa tgggtgtgaat acaagcagct tttctttttt ttttaatttta 120  
tttctgttta gtatttctga ttacgtaaca ggaagtctcg ag 162

&lt;210&gt; 1248

&lt;211&gt; 234

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1248

gaattcgcg cgcgctcgac ccagcatttt gttcctttct atttcaccgc tgctcagtaa 60  
caacctacac ttcacttttt gatgccattg tcattcactc attcattcat tatttgctca 120  
ttcattttgt tcaacaatga aaccaatgct caagcagatg gaggtggctg ggtgcagtgg 180  
ctcacacctg taatcccaac cctttgggag ggcgaggtgg gcagatcact cgag 234

&lt;210&gt; 1249

&lt;211&gt; 156

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1249

gaattcgcg cgcgctcgac tttccctttt atgtgtaate ctttgttttc ccggagtcac 60  
tacgtcttag tgccttgttt gctcagtttc ctatgtatct atcacaaatt cagcccagac 120  
cctgatagaa gtgtgaatct caacacattc ctcgag 156

&lt;210&gt; 1250

&lt;211&gt; 203

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1250

gaattcgcg cgcgctcgac agaacagtca gtttaccag gaaggccatt atctttgact 60  
tgcaaagctt ttacagccaa acattgtttg cttacagttc ttttaatacaa atgaagacct 120  
taatggtaag aagagtccca ttactactcc ctttgtacat ggaggtcatc ccaataaaga 180  
aaggacgatg tcacgctctc gag 203

&lt;210&gt; 1251

&lt;211&gt; 175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1251

gaattcgcg cgcgctcgac gagaactgct gctttgtctt cctgtgttag tgagaccagt 60  
tgtgtgttat cagatagtct agactttcaa cagcagttat aagtgcccca gttttctcct 120  
tactggttat tccttagagt ctaaggtggt gtattaataa atgaggtggc tcgag 175

&lt;210&gt; 1252

&lt;211&gt; 129

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1252

gaattcgcg cgcgctcgac cctcgattga attctagacc tgccatcacc cagcctttgt 60  
tttattatca tccattttac atcatcatat gcgataaacc ccaaaatgca ttgtcactac 120  
ttactcgag 129

&lt;210&gt; 1253

&lt;211&gt; 178

&lt;212&gt; DNA

<213> Homo sapiens

<400> 1253

gaattcgcg cgcgctcgac aaaaaagaga aactacttta ttgatgtttt ttcctcctga 60  
gcccctgctg gtcttattga atgtgtcacc ttgtattata attgttttta tttgtcactg 120  
ttgtcatact gcctactctt taccctcttc ccacatacat acacaaatgc tactcgag 178

<210> 1254

<211> 456

<212> DNA

<213> Homo sapiens

<400> 1254

gaattcgcg cgcgctcgac gcttcggcga tgggctcgtc actcgggctg taatactgct 60  
ccagggggca gttacaggaa ggtaaccatt tacagccaga aaagggttaa tatactcttt 120  
tcattgtttt cagaaaatgt ataaagggtc aatttgaac agcaagggtt tcaaattaag 180  
acaattcgta tagagtagca attgctgcac gaagtaaagt cttttttttt tttttttaac 240  
atttgtcatt taagaaggct gccctgcggt attcataatt cattgtttac cacaagggtg 300  
gttcataaat ttaagcttta aaaacgatct gtaagttgat actttggctc tttggagctt 360  
atttcattaa gaaattttcc ttgattgacc tcagggcagc tggggcactc caaggggcta 420  
tggcgataaa aagctcaatt ggtaagaca ctcgag 456

<210> 1255

<211> 205

<212> DNA

<213> Homo sapiens

<400> 1255

gaattcgcg cgcgctcgac gtgcctctaa aattaaatat ttgggatctt ttgattagt 60  
ctggatgcat caaataagca taactaaact attctttttt tgtttgttt tgagacggag 120  
tcttgctcag tcgcccgggc tgaagtgcct cagctttctg agtacctgtg actacatgtg 180  
tgcaccacca tgcccagttc tcgag 205

<210> 1256

<211> 271

<212> DNA

<213> Homo sapiens

<400> 1256

gaattcgcg cgcgctcgac ggaatctagt tgcctaagga taaactgagt ttgacttcat 60  
tagtgcacaa atgataggtt tgtgtagagt tattatagca ttaatcaatt tgatggattg 120  
gaaatatgac agaactgaag cagcatgtaa tattagtgcc tattattctg gaaattatgt 180  
cttcacctac attcatgttg cagaggagtc atgttggtaca tcaagaaggc agaacttaaa 240  
gaaacaaaca acagagggca tcttactcga g 271

<210> 1257

<211> 245

<212> DNA

<213> Homo sapiens

<400> 1257

gaattcgcg cgcgctcgac cttacatttg cttagggttt tccaagatt cataggcctc 60  
ttgtctttat gcatctaata atatcatcta ctgtacaac ttttaaccatc ttttcaacac 120  
tgatgattct cctctgtctc tgtcctttca gtactgcttt tctcctgaac tccagaccca 180  
tatctcttgc tgcttgcaag cagtttatcc tgaatcccct tgactccaca actggtccac 240  
tcgag 245

<210> 1258

<211> 217

<212> DNA

<213> Homo sapiens

<400> 1258

```
gaattcgcgg ccgcgtcgac caccatccta ctggagaaag catactttta tgctaagatc 60
ttactttaag cgttttatgt gaacaaaaga tgtacatata gtaagtatta ctccgtagt 120
cctcaaattt actataactt ttgtacttag tatatgtttt atatttgga aacagcacta 180
cgcttagttt tcctgtagtt cctgagtgat gctcgag 217
```

<210> 1259

<211> 156

<212> DNA

<213> Homo sapiens

<400> 1259

```
gaattcgcgg ccgcgtcgac atttctgctc attgtttcca ttctgcaccc cattttttct 60
gtttttttcc tgagattatt aggaatgttt tatcataggg tattattaat tttctcttta 120
gtggcctctt tatcacattg tcacattatc ctcgag 156
```

<210> 1260

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (22)

<220>

<221> unsure

<222> (24)

<400> 1260

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gaattcgcgg ccgcgtcgac ancagatgg aggattcggc ctcggcctcg ctgtcttctg 60
cagccgctac tggaaacctc acctcgactc cagcggcccc gacagcacgg aagcagctgg 120
ataaagaaca ggttagaaag gcagtggacg ctctcttgac gcattgcaag tccaggaaaa 180
acaattatgg gttgcttttg aatgagaatg aaagtttatt tttaatgggt gtattatgga 240
aaattccaag taaagaactg agggtcagat tgaccttgcc tcatagtatt cgatcagatt 300
cagaagatat ctgtttattt acgaaggatg aacccaattc aactcctgaa aagacagaac 360
agttttatag aaagctttta aacaagcatg gaattaaaac cgtttctcag attatctccc 420
tccaaactcg ag 432
```

<210> 1261

<211> 188

<212> DNA

<213> Homo sapiens

<400> 1261

```
gaattcgcgg ccgcgtcgac ggtaagtgc tttggaaagt ggaatagagt aagggggatt 60
cagaattggt gaggatagag gttgcaattt aaagtgaggt atactgggtg gagtatcctt 120
gagagagtga tatttaggaa aaatttaacg gagaagtaac catgttaata actggggcag 180
ttctcgag 188
```

<210> 1262

<211> 161

<212> DNA

<213> Homo sapiens

<400> 1262

```
gaattcgcgg ccgcgtcgac ttaaagttaa agtgatacta aattaagtea ctgttccctt 60
gcttaaaact gttcagtgct ttccatttca ttgagaataa aattgaagct cttttcatgg 120
```

tctctaatat tctacataga cttacccttg tatacctcga g

161

<210> 1263

<211> 209

<212> DNA

<213> Homo sapiens

<400> 1263

gaattcgcg cgcgctcgac aaataaccct tcaacaagtt aaattgcctc taggatttgc 60  
tttctccaga ttaaattatc ccaagtctt ttcttttttc tcataaaggc cttttcaaaa 120  
agaaacattg gttactttta aaatttcttt ttctagctct ttataaaact ttattctttt 180  
cataaatgta ccacaggata ctctcgcag 209

<210> 1264

<211> 323

<212> DNA

<213> Homo sapiens

<400> 1264

gaattcgcg cgcgctcgac gagagtggca tgcagtataa aattcaaggc agcagtacac 60  
ctctgggaca gtctgtagca gttccctaata ctacctgtat ccatgagcgc agataggagt 120  
gaagcctcct aggcctccag tctgcagcat ctctgtcaca tggaaacctg atgggtgcct 180  
ctgtgagggg ggccaattat gcacagtgc cactaaacac agatcatttt agccttccta 240  
attagccact aataaaaaga cactgaagta agtatcctga agatcaaaga gagattttcca 300  
ccatgcctca ataactactc gag 323

<210> 1265

<211> 220

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (188)

<400> 1265

gaattcgcg cgcgctcgac atttaatat cactcttggc actttacaat cagtcactgc 60  
tccctatgga atttcatagc tcacttttat aacagacatt ggtaaaataa gaatctattg 120  
ttaaagtact catctaaaat attttaatac tcattggagt gatttttgcg agcaaagctt 180  
aaaaatnnc ataagtcttt gtttcaccct gatcctcgcg 220

<210> 1266

<211> 289

<212> DNA

<213> Homo sapiens

<400> 1266

gaattcgcg cgcgctcgac cagtataaaa aacagtctct taattaaact tgtccgaatc 60  
ctcctataac ttggtaattt taggcaatat agtctccct cagtgttcat gagagattgg 120  
ctccaggaca cccctatac caaaatcctt ggatactcaa atcccttata taaaatagtg 180  
tattatttgc atataactta tgtaccttct cctgtatact ttaaatcatc tctagattac 240  
ttataatatt aatggtaaaa ccacaattac ttctgcacca actctcgcg 289

<210> 1267

<211> 243

<212> DNA

<213> Homo sapiens

<400> 1267

gaattcgcg cgcgctcgac tgaatataaa tttttttata gcatgttaat tgcttatata 60

```

aaaaagttaa taaaagatag gttttttttt aagtatatatt ttctaaaaga ggaagattgg 120
gtttttttgt ttgttttgtt ttattttttt tctttttttg agacaggggc tggctctgtc 180
atccaggctg gagtgcagtg gcattatctc agctccctgc aacctccacc tcccagagctc 240
gag 243

```

<210> 1268  
 <211> 152  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1268
gaattcgcgg ccgcgtcgac gggctccaga aaaccagggg gactcaaaac agaatgaaac 60
tgcaaacatt cgtttttatt gctattttta aaaatttggg aatatggccg ggtgcgggtg 120
ctcacgcctg taattccagc actttcctcg ag 152

```

<210> 1269  
 <211> 192  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1269
gaattcgcgg ccgcgtcgac ggttttatga acatttatatt agccgttgta ttgtgggttg 60
ggattgtata ccatgctttt tatttgtaatt tattttttac ttctttttaga gacaggggtc 120
cactctgtca ccagtcctgg agtgcagtgg tgtaatcata gttcagtgca gtctcgaact 180
cctgggctcg ag 192

```

<210> 1270  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1270
gaattcgcgg ccgcgtcgac attaagcatg acatatcctt catatgatca ctcatcttga 60
gttaattaga aaatacctga gttcacgtgc taaagtcatt tcaactgtaat aaactgacta 120
tgggtttctta agaacatgac actaaaaaaaa aagtgggttt ttccaccgt tgcgtattat 180
tagacagtag gaaatagctg ttttcttttag ttttacaaga tgtgacagct ttagtggtag 240
atgtagggaa acatttcaac agccatagta ctatttggtt taccactgat tgcactattt 300
tgttttttta acagttgcaa agctttttta tggcataaaa gtataattga aatctgtggt 360
atattattac aaacatgtct cgag 384

```

<210> 1271  
 <211> 173  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1271
gaattcgcgg ccgcgtcgac ggtggctgcc cctgtcccag cccgcaacac cccctgctcg 60
gcgtcctccc gcccggtgac tcttgggtgg ttgccccgag aggcgcacgg ccgcctggtt 120
cgcgggggag cgaacgggag gccggggaat gcgaaccggc gcaaactctc gag 173

```

<210> 1272  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1272
gaattcgcgg ccgcgtcgac caacctcctg ctgtccatgt atttcttcgt gctgggaatc 60
ctggccctgt cccacacat cagccccctc atgaataagt tttttccagc cagctttcca 120
aatcgacagt accagctgct cttcacacag ggttctgggg aaaacaagga agagatcatc 180
aattatgaat ttgacaccaa ggacctggcg tgcctgggcc cactcgag 228

```

<210> 1273  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (24)

<400> 1273  
 gaattcgcgg ccgcgtcgac cgcncattta tgatttggaa caactagggtt ttatataaga 60  
 tacaaaaaatt aaacaaagga tttgtgcatt gcaaaaagct acaaggaggt ccaaagcagg 120  
 aagttatgca aaacatagca tttgcccctg actgggagtg cagggaagat gtggaagagc 180  
 agagaggaag agaaggaggc taggggttagg tacctactca agaaggttga aggggaattgt 240  
 ggaaggagag gggccggtgt cctgctcctg ctgtcaaact ctagaacctt gtggggctgc 300  
 tgtgatccca cagagaacgt gaagagggct cccagttccc tatggccagt gccaaagctgc 360  
 aagtacatta gggagtatct ccaaggcttg tgggtgggga actcgag 407

<210> 1274  
 <211> 171  
 <212> DNA  
 <213> Homo sapiens

<400> 1274  
 gaattcgcgg ccgcgtcgac gagagatttt tacttatata atagtcctag agtttgcagc 60  
 tggtaaaacc agaggctaca tccagtattg ctgctaagag acattcttca tccaccaatg 120  
 ttgtacatgt atgaaaatgg tgtactgtat actttaacat gcctcctcga g 171

<210> 1275  
 <211> 274  
 <212> DNA  
 <213> Homo sapiens

<400> 1275  
 gaattcgcgg ccgcgtcgac cttgaattgc ctttagagca ttgtgtccgt ggtttcaatt 60  
 gtatcacaga atgtttacaca gactgaagtt aagtggttac tttttgtcag gggttatctt 120  
 atttttctcc attcagttta acatgtgtac tgcaaaaagac agtatttttg gaaatgaagg 180  
 catagtcttt catttaaaca tgcacagag ggatttctact aatgaaagca ttcaaatacat 240  
 gtgcctagtt cttgtttcta gcagcccact cgag 274

<210> 1276  
 <211> 163  
 <212> DNA  
 <213> Homo sapiens

<400> 1276  
 gaattcgcgg ccgcgtcgac cctgattcca aagggatatt tctgcgacac ttacaatgaa 60  
 attccaacct ggcaccatct ttttctactgc agaatgcatg aagggtggtg catcatgtca 120  
 tttcgacatg catttaaata taatgaaagg cacacagctc gag 163

<210> 1277  
 <211> 254  
 <212> DNA  
 <213> Homo sapiens

<400> 1277  
 gaattcgcgg ccgcgtcgac tcttgagata atttaagtga aatctgtatg gtgtgttttt 60  
 ttttaataatt tcgtttttat cttttgattg gctgtgttta cagtgaacat ttctctact 120  
 ggataactat gtgtaaattg ccattaggga tttataagcc tttacaacca gttttaggcc 180  
 aggaaatgtc cacagagttt gaagttttct ccttagggaa gttgttatgt tgctatagta 240

agggagtact cgag

254

&lt;210&gt; 1278

&lt;211&gt; 181

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1278

gaattcgcg cgcgctcgac cgattgaatt ctagacctgc ctcgagtgat ctgcctgcgt 60  
tggcctccca aagtgcctgtg attacagacg tgagccactg tgtctgtctt gtctctgata 120  
tttatatgcc attatgtggc ctctactgcc ttaggattct aatgttccca ctaagctcga 180  
g 181

&lt;210&gt; 1279

&lt;211&gt; 179

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1279

gaattcgcg cgcgctcgac ccattcccttg tatttctagc tggttttttt gtttttttct 60  
aggtgttttt tggtttttta agcttctaag tgaatcaact aatataattc ttaagagaat 120  
tagctgtaaa gatattcata ccattgtctt tcagacacat gcagctagtg ctacttgtc 179

&lt;210&gt; 1280

&lt;211&gt; 239

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1280

gaattcgcg cgcgctcgac aaacaacaa aaaaagcatt tcttggagag aagaagcatg 60  
tacagatgag caagtggaga ctaaagatgt ttgagtgat gagtagacag gtgaacaggc 120  
gggcatttgt ttttattatt gttacttatt tatttttaaa ttttcttttt ggatgctccc 180  
tcacccccct cctccttccc caggcaggta ttatgataga taaaggatgg gtgctcgag 239

&lt;210&gt; 1281

&lt;211&gt; 213

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1281

gaattcgcg cgcgctcgac gatttttagaa gctatagaca ttgtttaaga taactaagaa 60  
tacttggcta agaagtataa tttgctaact attaaggact ttcttttttt aatgttgtac 120  
actattcttc ctactctttt ttggtttttg ttttgttttg tagagactgt ctactatgt 180  
tgcccaagct ggtctcaaac ccctaattctc gag 213

&lt;210&gt; 1282

&lt;211&gt; 148

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1282

gaattcgcg cgcgctcgac atttggactt gtacctgata agcaagctca ggaattaact 60  
tggtagccac cacaaaacct aaagaaagt aggccttagaa gtgcaactta atcacaattt 120  
agattttaac acacacgcat ttctcgag 148

&lt;210&gt; 1283

&lt;211&gt; 186

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1283

gaattcgcgg ccgcgtcgac ggaatcagg gaaaggctgc ctcttttgta tctcaactgg 60  
 tattgattat tgctatcaac tatttgggga gaaaaaatca aaatgaagcc ctgtcaaatt 120  
 ttagaagtac tatcttttggc ccttcaaaca ctttgtgatg acaccttaag aaaacaaaag 180  
 ctcgag 186

&lt;210&gt; 1284

&lt;211&gt; 222

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1284

gaattcgcgg ccgcgttgac tgcagttgtc gccaaacttg ggtattcatg gaatttctag 60  
 taaatgaaat acctatactt tgatactgaa gactgccaaa tacataggaa ttttctttct 120  
 taataaacac taatgaagac tatatctcct ttcccagcac tgaatgtttt actagcactg 180  
 ggtgtccacc atgcaactga agaaaatgtg aaatctctcg ag 222

&lt;210&gt; 1285

&lt;211&gt; 190

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1285

gaattcgcgg ccgcgtcgac ggtgtacgga tatttttctc aaattatcta ttttgttgat 60  
 gttttttgta cccattctgt tgtgtttgct tttattaatc tataatatca tctgcttcaa 120  
 tatggaacac cccacagggt caggtctgag gtgctccctg ttggcagctc cttaaagagaa 180  
 gcagctcgag 190

&lt;210&gt; 1286

&lt;211&gt; 177

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1286

gaattcgcgg ccgcgtcgac attgtacatg cttctggact tgctttttcc cttagtgtac 60  
 cttggggaat ttgccttgat atatggagag atgcagctgc tttgtttcat gttttgcttt 120  
 tttttttgga cagttggaca tgcgtgtccc aagtgtgttt atttagccga tctcgag 177

&lt;210&gt; 1287

&lt;211&gt; 293

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1287

gaattcgcgg ccgcgtcgac caaaaaaat gctagagtaa gaaatcagag gaatgggaaa 60  
 atgaggggtg gattaaatga aatacgcata aattactata caaatgcct gcagtgaag 120  
 cccgttgaat ttgttgagat agattgcaaa ttttacttta gtcttcccag aagtcacggt 180  
 aaagaagggt acagaagtat tgtgtattca aaatccaaag tgcctttggg ataaaagtaa 240  
 ataggtcatt caggagaagg acatgttttc ttaattctaa aagctgactc gag 293

&lt;210&gt; 1288

&lt;211&gt; 277

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1288

gaattcgcgg ccgcgtcgac ctaaatttaa gtatgcagtt ctcttttttc tgggtttatt 60  
 cgtgtggtt catcgtgagt aagaagcctg ccttgctgtt cctgggaaga tgccatagtt 120  
 ttcgttactg gatgttttga gtagatacag gtctgtgatt ggtggaaagg agaacacacg 180  
 tgttgggtgct tctgggttagc actgggtttgc attagtattat gtttccatgc cagagtttgt 240

gtgggcgggc gcatgtgcac cacagagtgc actcgag 277

<210> 1289

<211> 266

<212> DNA

<213> Homo sapiens

<400> 1289

gaattcgcg ccgcgtcgac aggagctatg cctccaaggt ggctccttac acccatataa 60  
atgtgggatg gaatctgaga ccttagaagg gcccttcggt gtaaactctg aaggttagtg 120  
ccagaaggag gtggtcaact tcctaagtgg cctgggggtca agatcatttt cacctagaaa 180  
gacaccgac tatagaaatc taggcaatga caaactgcta ccattttcct catatgattt 240  
tttttcaggc agcttgggga ctcgag 266

<210> 1290

<211> 139

<212> DNA

<213> Homo sapiens

<400> 1290

gaattcgcg ccgcgtcgac caagaattta tttttttat tttttaaaat taaaaataat 60  
ttatatttcc tctgttgcac gaggattctc atctgtgctt ataatggta gagattttat 120  
ttgtgtggct atcctcgag 139

<210> 1291

<211> 154

<212> DNA

<213> Homo sapiens

<400> 1291

gaattcgcg ccgcgtcgac gagagagtgt actttatcct cacaagtcta ttagtgcata 60  
ttaaatacata atgaaagcaa tccttggcca ggtgcagtgg ctcatgcctg taatcacagc 120  
actttgggaa gcggaggcag gcagatcact cgag 154

<210> 1292

<211> 269

<212> DNA

<213> Homo sapiens

<400> 1292

gaattcgcg ccgcgtcgac gtaaagtctt attagttaac caggcagggt taaccacgtt 60  
attatagaaa ctctaagagg tttcacatgt gttttttttt tgttttgtt tgtttgtttg 120  
ttttgagatg gagtctcgct ctgtcaccca ggtgggagtg caatggcgct gtcttggctc 180  
cctgcgacct ctgctccccg ggttcaagca gttatcctgc ctcaacctcc caagtagctg 240  
ggattacagg caccgcgcaa ccactcgag 269

<210> 1293

<211> 207

<212> DNA

<213> Homo sapiens

<400> 1293

gaattcgcg ccgcgtcgac gctaattggc gtttgcatt gtgtcttcaa acagatcctg 60  
gttacagcca ttttgtgtga ttcacttcgg ggttaagta atgcaggatt ctgcaaacia 120  
ggtgtcgccg tccaaatgta ctgtcctggc atagagagca ctgctttgtt ttccactgtt 180  
gtagagaaaa ctaggagaaa gctcgag 207

<210> 1294

<211> 225

<212> DNA

<213> Homo sapiens

<400> 1294

```
gaattcgcg cgcgctcgac atttcagtgg tatttttatt ttctactccc tattccttta 60
gcttggttca gatttaaatt gttcctcatc ttctagtatt ttaagggtcaa aggttagggt 120
attgatttga catccttctt gtttgtaaat gtaaatattt acagttataa attttatctt 180
tagatgcac aaaacaaaat gtattggcaa agagtcatac tcgag 225
```

<210> 1295

<211> 197

<212> DNA

<213> Homo sapiens

<400> 1295

```
gaattcgcg cgcgctcgac taacaatatt gattcttcca atccatgaac atgggatatc 60
tttccatttt ttgtgtgtct tcttcattta ttttatttat ttattttttt gagatgggtg 120
ctagctctgt ccccatgct ggagttcaat ggcattgatc cagctcactg caacctctgc 180
ctcctggggt gctcgag 197
```

<210> 1296

<211> 171

<212> DNA

<213> Homo sapiens

<400> 1296

```
gaattcgcg cgcgctcgac ctgacttttc tacatatgct ttatcaacct ctttaattaaa 60
ccatcattgt ctattttgag agataactgc gctgcttccc attgtgtgtt ttaaagtta 120
ttgttcagtt tgagtcaaat aaaaggatat ttaatctatg gtggcctcga g 171
```

<210> 1297

<211> 253

<212> DNA

<213> Homo sapiens

<400> 1297

```
gaattcgcg cgcgctcgac cgagttgtgg aattgtcaag gatgtcacac agtggacaga 60
aagtccaagc gagggagggt ctgacctcagt gctgatggag attagtgggt ggtgtctggt 120
atgaggatct actgactga caagggtgtc ctacagagtg gagtgtgtc atatggcctg 180
ggacgggaga ggcccaagca cagcaaggac atcgcccgat tcacctttga cgtgtacaag 240
caaacacctc gag 253
```

<210> 1298

<211> 170

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (32)

<400> 1298

```
gaattcgcg cgcgctcgac ctgcttttta anacaacaaa caagaacaac aacacaaaac 60
tggtaatgat ttggagtaat catgcgggca tattgagtct gggtagtggt tcgctgggtg 120
tagagtgggt gagacttctt gggaggactt ttccgcctc cactctcgag 170
```

<210> 1299

<211> 185

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1299

gaattcgcgg ccgcgctcgac ccgggatttta ggggcaggat aaagattagt aatagctagt 60  
aaggaacaga attcaaaatg tggctctctaa ttacaaaatc tatagtttta acttcattta 120  
ctgctactag tgtccctgat ggtataactt tcttaaatct ttcagtaggt ccaggtgatc 180  
tcgag 185

&lt;210&gt; 1300

&lt;211&gt; 245

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1300

gaattcgcgg ccgcgctcgac acttagtata actttgcaat catttaaat cagtgaatta 60  
ggttttcagt ttctctagaa ggaaaaaagc caactttttg agcctgcctt tgtttctctg 120  
cgtgtaagtg tatgtgtata taagaaatga aaattcattt tctcaccagt ttactagttt 180  
atgtaagtgt gttcctttta atccatgttt ttgagaatgg acttgggaaa gcaatgggac 240  
tcgag 245

&lt;210&gt; 1301

&lt;211&gt; 358

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1301

gaattcgcgg ccgcgctcgac agtccctggg gtgtggagcc gctaggggtt gcacccatga 60  
aacagaaaag ccacaccctc caagggtgtg ctttcatttt gggactgctg caggaggaggc 120  
agaggcattg ctgagactgc ctggcaacgg ctgatgcccc aggtaggacc ttttccattt 180  
caaagtgggt ttctaaagtct gcgtccaaca ctgtgttaga aaaagggttg tgcaaaaaata 240  
ttcctgggtca tccaccattt aaaaatagtt gatgaggcta ttgccttgat gacagctgtc 300  
cacactcctc atgaaattaa cccgtatgcc ggggcatttc caaatgtctg aactcgag 358

&lt;210&gt; 1302

&lt;211&gt; 150

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1302

gaattcgcgg ccgcgctcgac gaatttctgt attaacaaaa tattttaata aatcttaaga 60  
gaaaatcttt taaaaaaatt ttagggcaca atgaggcacc acttcctctg ggcaaatgca 120  
tttgctcctc atttagtgga cattctcgag 150

&lt;210&gt; 1303

&lt;211&gt; 200

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1303

gaattcgcgg ccgcgctcgac agcatgctta ttcttacttc taaaaatata gtcatgtcat 60  
ggctgctttt ctgggcaactg ctacccttgt gtcaacttgt atcagcagta ttccaaggaa 120  
gcaaatggca cgttgaaatg aggataatc aaggaaggta tatttataaa gatattagta 180  
ataaagatgc tggactcgag 200

&lt;210&gt; 1304

&lt;211&gt; 188

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1304

gaattcgcgg ccgcgctcgac ctggtttgtt atagatgcat ggagtggcta ggaaagctgt 60  
tagaggtagg atatctagta agagccgtgg tgcacagccc tggctgcaca ttggaactgt 120

ctggagaaca tttaatggcc cgatgcccag gttcacccca gatcaattat atcagcagct 180  
cactcgag 188

<210> 1305  
<211> 203  
<212> DNA  
<213> Homo sapiens

<400> 1305  
gaattcgcgg cgcgctcgac cgcaggattg ggactgatac agaggccgcc acggagcccg 60  
ccggagccac cgttcctgct gctgccgccg ctgccgaat cggaaccgtc gggccgcagc 120  
cgccggcaat gccgcgaagg aagaggaatg caggcagtag ttcagatgga accgaagatt 180  
ccgatttttc tacagatctc gag 203

<210> 1306  
<211> 160  
<212> DNA  
<213> Homo sapiens

<400> 1306  
gaattcgcgg cgcgctcgac caacattgaa gaggatcact gcttttcata agtaagttga 60  
atttttgaagt tcctgttttc ttaaatctgt agaaataaac ttgcatgttt tgtgggttat 120  
gttaattttc aagctaattt gttgttgttg tcagctcgag 160

<210> 1307  
<211> 585  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (18)

<220>  
<221> unsure  
<222> (23)..(24)

<220>  
<221> unsure  
<222> (277)

<400> 1307  
gaattcgcgg cggggtcnag ccnnttcctc taagcgttta cttacatggt taagatattc 60  
tggaacctct ctttcctgca ttaacctttg gccttcggca gcatataage aattagtctc 120  
ttccaaaaat ttcagttcaa atgaatcttt atacacctgc aggtcagaca gcatgcccag 180  
gaggtccgc aacaggctcc ggtccacggc ctccgccgct ctctcgcgct cgatcagcag 240  
taggattcca tcaatggttt tactctgaac cttttntca ctaataatat gggttctaaa 300  
cagttctaata cccatatccc agatggaggg cagcgtggag ttctgcagca cataggtgcg 360  
gtccaagaac aggaagatgc ttctgatcat gatcatttgt ctgcagtggc cctgccagca 420  
cgtgttaatc ttctttaaaa ataaaacact atctagttag tcttctctaa acggaaggat 480  
ctgtgcctgg acgtggtctt cacaggcctg acgcagttgc ttgtagagca ttggggagac 540  
tttgtgagaa cagagatttt ccacagcctg gtagagctcc tcgag 585

<210> 1308  
<211> 219  
<212> DNA  
<213> Homo sapiens

<400> 1308  
gaattcgcgg cgcgctcgac ctttaaatgt tttttctacc ctcttctct ctttctggaa 60

```

ttccagttac acgttttttag atatttttgat attgtcctaa aaataacatt gcctctgtac 120
atcttttttc agctgttttt ctctttattg tttagttttg ccatttggtta ttataattta 180
gttcaggaca caaagatgag ggtaggaga agcctcgag 219

```

```

<210> 1309
<211> 176
<212> DNA
<213> Homo sapiens

```

```

<400> 1309
gaattcgcgg ccgcgtcgac cacgttagtg tagacatggc cttgggggct gagcgcagca 60
gccaggctgc cagggctggg ggcgggtagg aggcacggta gttggtgggt gggaagaggg 120
cctgggtggt ggcggtcagt tagcctggct gggtagggtt gatgaggtga ctcgag 176

```

```

<210> 1310
<211> 182
<212> DNA
<213> Homo sapiens

```

```

<400> 1310
gaattcgcgg ccgcgtcgac gccaggaata tgttctgtaa aaacgtgttt tatatgattg 60
tgcagggtgt cttactgtcc ccagaactac ctgaatcaga ctgctgcca gcaggtggca 120
ctggaaataa cctcctgtgg aatgtttctc atgccccctc cttatggcag gacacactcg 180
ag 182

```

```

<210> 1311
<211> 171
<212> DNA
<213> Homo sapiens

```

```

<400> 1311
gaattcgcgg ccgcgtcgac tgaagagaga gcaccacatg gacatccgag atgtaaccat 60
ctaggcagtg agggcagcat gttagcagag aggtgaagga tgaagacaga gcaccaaagt 120
ggcatccgag atgtaaccat ctaggcagtg agggcagcat gttgcctcga g 171

```

```

<210> 1312
<211> 222
<212> DNA
<213> Homo sapiens

```

```

<400> 1312
gaattcgcgg ccgcgtcgac ggagaatcac ttgaacctgg gagataggga ctgcagtga 60
ccaagattgc tccactgcac tccagcctga gagacagaga ctccatctca aaaaaataaa 120
gaaaccgcgc ccagcccaga cccctcattc ttaaagaata gtacttcctc tctaagtgat 180
aagatcctga tgaaactggt aaaattcagg cgagcgctcg ag 222

```

```

<210> 1313
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<400> 1313
gaattcgcgg ccgcgtcgac gtaacaacca gttgagaaaa agggaggaac tgaagataac 60
tcagggtttg agctagggta gaggaataat ttggaaggag aagataacaa actgcatttt 120
agaacctgag agatggaagc ctcagaagga catcattgtg aaaatatcca gcaagcccat 180
ggaaatgtgg agaggtcaga accaaataaa ctcgag 216

```

```

<210> 1314
<211> 251
<212> DNA

```

<213> Homo sapiens

<400> 1314

```
gaattcgcg cgcgctcgac acagctctct cctcatttta atccaagggg agagttgtaa 60
tcctgagaac agccaggatt cacagttgaa aaataattta aaaagctctt ctggggggtat 120
agatttttag ttcaaaaaaa catatcaata ttcagagtta tacagaaact gacagagggtg 180
ttatttttaa aagattcaga agaattggatg actcatactc ttcaactaga tttcatcacg 240
ggatgctcga g                                     251
```

<210> 1315

<211> 201

<212> DNA

<213> Homo sapiens

<400> 1315

```
gaattcgcg cgcgctcgac attagagaat aaaaggggaat gacttaaaat ttttccatgt 60
atgtattgat ttatagatta tttttctgta cggtttgtaa aatacatgtt tttttctttt 120
tttgagacag tcttactctg gcattctaggc tggagtgcaa tggcgcaatc tcagctcact 180
gtaacctcgc ccacctcga g                                     201
```

<210> 1316

<211> 328

<212> DNA

<213> Homo sapiens

<400> 1316

```
gaattcgcg cgcgctcgac acctgacgtg gcctctagag aatgttgccc agggcagtag 60
agcctccctg gtggcactgc tgtcagcacc accctgcaca gcccggcaga accctgcctt 120
gccctggcca tctctgtctc tgagattcac cacggagggtt agcttggtta taggtgagct 180
gttaagagta ggggtttgtg ttcttggaag ttagggctta ggagccacac atttccttct 240
tgcccagctc ttgcttgctt agaccatttt ctttatcttt ttcaatgaac acttgtcaaa 300
gtgtgctcct tcctcccatc ctctcgag                                     328
```

<210> 1317

<211> 254

<212> DNA

<213> Homo sapiens

<400> 1317

```
gaattcgcg cgcgctcgac caaaaacatt aaaaaacttt cctaagtcac ttagagtgat 60
tttaaaactt ttttttaact gtatcacact gcttctcgat agttcaagtt aattatctta 120
tttgatatct tagacttggg acagtgtctg tgttcccagg tggctgaata ctaaggctaa 180
atattagctg aatgccttcc atgtgctcaa cctgtctatt gtctagaaaa ctaaaatcta 240
ggctgggact cgag                                     254
```

<210> 1318

<211> 203

<212> DNA

<213> Homo sapiens

<400> 1318

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tttgaccctc tagctccctt tcagctttct gtttctcatt gtttgctttc ttttcttctt 120
ccagctgatg ttccacttgt ttcttctggt gtttcaaaga tttgatgggtg tcattcagtc 180
gactgatttt tatggacctc gag                                     203
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<210> 1319

<211> 271

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1319

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gaattcgcgg ccgcgtcgac ccacttttta gtaggcaaag acactttctac cacaacaatc 60
aggtaatttc ctcatatttg tgaatatgga agtgattgaa tgtttctatc ttatttttga 120
ttcttataat aacttcataa gtctctgcac acaaataagg tcagattaag cctcgacttc 180
tccaaagagt tctcaaaaca cgaagaacaa acttttaagt ctcttgatat tcttcatgta 240
ccatttatat ttagttgctg gtcaactcga g

```

271

&lt;210&gt; 1320

&lt;211&gt; 576

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1320

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gaattcggcc aaagaggcct agaagctgat caagtttctg gccttcgaga gaatacatca 60
gtttttcccc tcccgggtcc aaccttcacc gggcagtgct gggacacatc agctggcttc 120
tggagggcac cacatagaag tgcaaagaaa ggaggtacag gcccagctg tgttctaccc 180
cctcttaggg ttgggaggag ctgtgaacat gtgctatcga accctctaca tcgggacagg 240
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tgctgcata ttctacgatg agaataccaa acattatgag ctgttaaact acagtgaaga 360
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ccccccaagc agtattgttg ccaaagtgcg gagtgtcatc aggcgcgcgc ggcaccagaa 480
acaggacgaa gagccaagtg aggaggcagc catgatgagt tcccaggccc aggggcccga 540
gcggagaccc tgcaattgca aagccagcag ctcgag

```

576

&lt;210&gt; 1321

&lt;211&gt; 115

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1321

```

gaattcgcgg ccgcgtcgac ggctcctcac taatcaataa cacaagtgct aagttctaag 60
tatttaaaaa aacaaaagac tgcaggtgac tccttctctc aggtcccatc tcgag 115

```

&lt;210&gt; 1322

&lt;211&gt; 557

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1322

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gaattcggcc aaagaggcct agacagaaga taaatgaaag tataaaaaaa cctttaagta 60
gtaaagaggg cactcaaaaag tgtatttctg ggtatagttc tgtcttccca gtagggtaga 120
tgtcaggctc atctgttaat aaaagtcaac accaaaatga tggtaggaag tttgtggttt 180
tgggggaaaag ttcaaaattg gggctgtagg acatgtaaat catgaagata cgatttttta 240
aaatagccaa atagtaatat aggtatgcta tggtagagat cttgattgtg catccattaa 300
tgtatagtgt gcttaaaatg tctataggct aaggaattat tttgactttg atatgtggac 360
aggaaggagc ctctgaaagt aacttgaaga aattgatatt ttacgttttg tagcatcata 420
tagtctaatt ggaatggaca gagatgtgag gcagagatat caggaagcca ttacaggagg 480
ccgggtgtgg tgtggtaaat agtgactgag gcagagagaa cgaaattata ttgtaaagt 540
agagacagct actcgag

```

557

&lt;210&gt; 1323

&lt;211&gt; 376

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1323

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gaattcgcgg ccgcgtcgac caagcagcag cgagtaccag tcccttttct gttctgctga 60
caagctcacc ctctgtcacc tgetcaacat catgaaggtc tccaccactg ccttctgtgt 120
tcttctctgt accatgacac tctgcaacca agtcttctca gcgccatatg gagctgacac 180
cccgaactgc tgctgttctt cctacagccg gaagattcca cgccaattca tcgttgacta 240

```

ttttgaaacc agcagccttt gctcccagcc aggtgtcatt ttcctgacta agagaaaccg 300  
gcagatctgc gctgactcca aagagacctg ggtccaagaa tacatcactg acctggaact 360  
gaatgccgta ctcgag 376

<210> 1324

<211> 372

<212> DNA

<213> Homo sapiens

<400> 1324

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gtgtgtgtct acggctactc gctgttcac tatatcccca cagcagtcct gtggatcatt 120  
ccccagaggg ttgttcgttg ggtccttgc atgattgcc tgggcgtctc aggctctgtg 180  
ttggaatga ctttttgcc agctgttcgt gaggataacc ggctgtcgc cttggccacc 240  
attgtgacaa tcgtgttgct tcatgtgctg ctctctgtgg gctgcttggc ttacttcttt 300  
gatgctccag agatggacca cctcccagca gctataacca ctcccaacca gacagtaaca 360  
gcggcactcg ag 372

<210> 1325

<211> 234

<212> DNA

<213> Homo sapiens

<400> 1325

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attctataat taactcctcc acagtgaaca atctgtctaca cattccttga tgaggaatga 180  
acctagctta ccacagtgga aacctgccac aactgcaagg ccgggggttct cgag 234

<210> 1326

<211> 537

<212> DNA

<213> Homo sapiens

<400> 1326

gaattcggcc aaagaggcct aggatctgta atgttgatta gtcttttagcc ataaccacta 60  
cacttttaga aagacagaaa aatgtaagaa ttgttttta ccataatgag tcttaagtag 120  
gttcatgac tacattgggg cctgggatta tttttttaat tttaagttg catgagatag 180  
cctaataaat ggaggtgggg ccaggcatgg tggctcacac gtgtaatccc aacacttttg 240  
gaggctgagg aggaaggata gcttgaggcc aggagtttga gactagactg ggcaacatag 300  
caagaccccg tctctacaaa gcacaacgaa aaacaacaaa tggagtgtg ctatgttgta 360  
ttgctttgca caaaattagg aacagggtgt tgacaattga atttgtttc tgtgaattct 420  
aacctctaaa ggcatgctta gaggtaagg accttctgt gtagtgtgtg caaaagcaat 480  
ctccacagga cagcactgct tccatgcttc atacatcagg aaatgaggcc actcgag 537

<210> 1327

<211> 206

<212> DNA

<213> Homo sapiens

<400> 1327

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ttgaagcatt gtattttggg aaaattcttc tgtaaatact ataactttta taaatgggta 120  
agttatttag aattatctcc agtgcttact tctccctct tctgtataaa tctgctactt 180  
caattaagtt ctctccatc ctcgag 206

<210> 1328

<211> 178

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1328

gaattcgcg cgcgctcgac atttgatacc tttgatagcc tttcactaag tattccagcc 60  
 gccacatggg gtcacccatt gaccctggac cactgccttc accacttcat ctcatcagaa 120  
 tcagtgcggg atgttggtgtg tgacaactgt acaaagattg aagccaagag aactcgag 178

&lt;210&gt; 1329

&lt;211&gt; 162

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1329

gaattcgcg cgcgctcgac catgtgggtg gctgtattac tcatgtgtca gatgtaccag 60  
 atatcatgtt taggtattac tacaatgaa agaatgaatg ccaggagata caagcacttt 120  
 aaagtcacaa caacgtctat tgaaagccca ttcgtcctcg ag 162

&lt;210&gt; 1330

&lt;211&gt; 223

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1330

gaattcgcg cgcgctcgac gtctctcaaa aaaaaaaaaa aaagatcgtg tgtcacctgc 60  
 acacaacatt cacaactaa agccaaattg tttttttaa atttccttcc tcccttctcg 120  
 ctccctgaga ctgttttgat tgacatcttt tgtgtttcta ttttttccga ggcagtattt 180  
 tctttgtatg ttaatcatag ttatagtaaa gtcagcactc gag 223

&lt;210&gt; 1331

&lt;211&gt; 234

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1331

gaattcgcg cgcgctcgac gttctctaca acagaagcca agaaggaagc cgtctatctt 60  
 gtggcgatca tgtataagct ggccctctgc tgtttgcttt tcataggatt cttaaactct 120  
 ctcttatctc ttctctctct tgactccagg gaaatctct ttcaactctc agcacctcat 180  
 gaagacgcgc gcttaactcc ggaggagcta gaaagagctt cccttctact cgag 234

&lt;210&gt; 1332

&lt;211&gt; 137

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1332

gaattcgcg cgcgctcgac ttgtgcatac tgtaagcaaa ttgcttagct tctctagaca 60  
 tcaactgtgt tggagatttg cctagcacat ataactaat ggtgctcatc tgcactgcac 120  
 tcacacactt actcgag 137

&lt;210&gt; 1333

&lt;211&gt; 181

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1333

gaattcgcg cgcgctcgac cgagtttctt tctttcagta agacatacca aagtttgtgt 60  
 aaatcttcat tacttttgtt ccttagttgc tgacaggtcc atgctgtccc agattttact 120  
 ttttcttgcc ccagttttt tgggtcatca aaaaattctc gttgatcaga cctgcctcga 180  
 g 181

&lt;210&gt; 1334

&lt;211&gt; 120

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1334

gaattcgcg cgcgctcgac tgcatatata ccataaacac tgtgaagaag caaccattag 60  
gcacaggaat ccagccagat aaattaagta gaaatgctca tctttcattt atgcctcgag 120

&lt;210&gt; 1335

&lt;211&gt; 157

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1335

gaattcgcg cgcgctcgac gtacttgaag attaaaggcc ttactgagga gtatccaacc 60  
cttacaacct tcttcgaagg agaaataatc agcaaaaaac accctttctt aactcgcaag 120  
tgggatgcag atgaagatgt tgatcggaac actcgag 157

&lt;210&gt; 1336

&lt;211&gt; 205

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1336

gaattcgcg cgcgctcgac gtcactgggg gtttcttctt tgcttgcttt cttcctcctt 60  
acctacccc cactcacac acacacacac acacacacac acactttcta taaaacttga 120  
aaatagcaaa aacctcaac tgttgtaaat catgcaatta aagttgatta cttataaata 180  
tgaacttttg atcactttac tcgag 205

&lt;210&gt; 1337

&lt;211&gt; 209

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1337

gaattcgcg cgcgctcgac caagcttctg ctatagctcc tcctcaaaaa catttcacag 60  
ctcatcacgg cctgtagaat agagcccaaa ctctttttaa gtggtatacc aagcccttca 120  
tgatctactt ccactatcca gcctcattta ccatcgctctt tgtttcctat ctgctatccc 180  
actgcaaacy acatgcagct ccctcgag 209

&lt;210&gt; 1338

&lt;211&gt; 207

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1338

gaattcgcg cgcgctcgac cttttttaag atagaaaaat ttttaggttt ttgttaccaa 60  
atctgtcagt cttttacttc attgtatttt tcagttatgg ctagaaagac cttttgtacc 120  
acagattata tatttatttt ttctactaac ttgtatctt ttttatgttt caaaatttac 180  
atttatctgg aatcagtatt gctcgag 207

&lt;210&gt; 1339

&lt;211&gt; 158

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1339

gaattcgcg cgcgctcgac tgattggaaa tcgaactgga aacctgaagg caggagatgt 60  
atgctccctt gggatgtatg gggaaatcac acagagctgt tagtacttca gtcatgggat 120  
ttgctctcat gctatgcata tgggcctcac aactcgag 158

<210> 1340  
<211> 194  
<212> DNA  
<213> Homo sapiens

<400> 1340  
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cttccccata cctcagtcct ccaggtgaca cctgggctct tttctgcctg aacagcattc 180  
cccaccaact cgag 194

<210> 1341  
<211> 236  
<212> DNA  
<213> Homo sapiens

<400> 1341  
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cttcttggtg gctcctcttg gccctcccc cttctcccc caaccacca tcctgcaagg 120  
caagggaatgg cctctccctc cacagaggca acggctgcag agggagcact gtggctgcca 180  
tcccagttcc tcttcaaagc caaacagaca cgcgtgactc aaatccaaca ctcgag 236

<210> 1342  
<211> 262  
<212> DNA  
<213> Homo sapiens

<400> 1342  
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taagtattta ttcattcata agcatttcag tatttgtctc taaaagataa ggctctcttt 120  
ttaaaatcat tatcacacct aagaaaaagt taataattcc ataatatcaa catatagtca 180  
tatgttttaga ttgccagttg tttcacaat gttatgtgtg tgtatacttt tcagttttatt 240  
tttgactcag gatccccctg ag 262

<210> 1343  
<211> 178  
<212> DNA  
<213> Homo sapiens

<400> 1343  
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atggtcaaca aattattaca taaataatc atacagttgt gataggtact acaaagaaga 120  
cgtataagtt gctatgaaag tttataatag gggaatttta cgtatccttg ggctcgag 178

<210> 1344  
<211> 201  
<212> DNA  
<213> Homo sapiens

<400> 1344  
gaattcgcg cgcgctcgac attttccttc cttattttgt tatacatacc cttcccttcc 60  
tcccctgcct ttctgtacatt cattcctctt cctctaccct ccagcacatc tacttactgg 120  
tgctgtgctg tgtgtcagaa gataaaacag gtgtattatt gtataatgaa ttttgtatac 180  
atgtttatga aatggctcga g 201

<210> 1345  
<211> 384  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 1345

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tctctgggag gtctgtgggc tttaaagtag acagtagaga tgaagtgtt agagctgtgc 180
cccgtgcatg gccagtgtgc aatgagatgg tctcagagta ttatggctgg agtcaccact 240
tgtattacca ggaagcccag cctctgtgat tacaggattc caactatggt gactctgcac 300
ctcttccttt ttctcttgct ttctcattcg tcttattacc atttctgtaa attaaatcag 360
aacacacagg ggtcgcacct cgag 384

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&lt;210&gt; 1346

&lt;211&gt; 250

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1346

```

gaattcgcg cgcgctcgac gaggagagat cgaattcgcc tcttctctc aggcctctct 60
gctctgtct tttgtttgga tgccggcgct gctgcctgtg gcctcccgcc tttgtttgct 120
accccgagtc ttgctgacca tggcctctgg aagccctccg acccagccct cgccggcctc 180
ggattccggc tctggctacg ttccgggctc ggtctctgca gcctttgtta cttgcccccc 240
ccagctcgag 250

```

&lt;210&gt; 1347

&lt;211&gt; 328

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1347

```

gaattcgcg cgcgctcgac ctggtctctg gcaagtcgc ctacttgttt gtcaagctgt 60
cccgcgtggt ggaagggctg cgcttggtct ttacgcgct gcccttcacc cactggttct 120
tctctctctt ggaagaccct ctgatcgact tcgaggtgct cctccagttt gaagggcggc 180
ccatgcccc gctcacctcc atcatcgta accagctcaa gaagatcatc aagcgcaagc 240
acacctacc gaattacaag atcagggtta agccgttttt tccataccag accttgcaag 300
gatttgaaga agatgaagag tcctcgag 328

```

&lt;210&gt; 1348

&lt;211&gt; 139

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1348

```

gaattcgcg cgcgctcgac ctctggccta tgattgtgtt gtgtcttgca ttaaaaaaa 60
aaatttgaga gtggtagaat tacttctgtt atctgaaata cctgagatgc actttaaaact 120
gttgagatgt ctactcgag 139

```

&lt;210&gt; 1349

&lt;211&gt; 175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1349

```

gaattcgcg cgcgctcgac cagaaagtac aaggagacag agaaaaaatc cgctctgaca 60
agccacatcc atgattgatt gtaaggggat tattataatt gatagcttct ttatcatggg 120
attgctagta tcatttgtac ttgctggtct ttttaaagga acagactcac tcgag 175

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&lt;210&gt; 1350

&lt;211&gt; 166

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1350

gaattcgcgg ccgcgtcgac gtttgggttt tacatacaag caatctgcac tttgatttta 60  
aaaaagtctt aaaatttttt aaaggatggg gtcttgctat attgcccgagg ctggagtgca 120  
gtggctatct gcaggtgcaa tcatcatggc acattacagc ctcgag 166

<210> 1351  
<211> 192  
<212> DNA  
<213> Homo sapiens

<400> 1351  
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actaatcttc ctttcataga acctctatct tttttttttc taaacttgag tttgagtcct 120  
tggtatggtc atcataaggt aatggtttagc atgtttaaag atattcctct tccaaatccc 180  
agcgaactcg ag 192

<210> 1352  
<211> 273  
<212> DNA  
<213> Homo sapiens

<400> 1352  
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tttgtttttt tagagacagg gtcttggtct gtcaccagc ctggcatgca gtggttcaat 120  
catagctcac tgcagcctca aacctctagg ctcaagcagc cctccactt cccaaagccg 180  
tgggattaca ggcattgagc acagtgttg gtttattttt gccttcttaa agcatgggtc 240  
ctagagcatg gtccctcccc taaaatctc gag 273

<210> 1353  
<211> 201  
<212> DNA  
<213> Homo sapiens

<400> 1353  
gaattcgcgg ccgcgtcgac gcttgcgttg tttcagcttg tcttcattta aacttggtgt 60  
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acgccggaac ccaaattccag atttatcccc ggtgtttgac tgatgcagct cttgcagatc 180  
accttccatg tcgctctcga g 201

<210> 1354  
<211> 211  
<212> DNA  
<213> Homo sapiens

<400> 1354  
gaattcgcgg ccgcgtcgac aaataagcca cagtaccaag ggttgatttc agtaagcaag 60  
tcccacaaac tttctgggaa gctttaagaa aatgaaaatg ctctcttctc acttttgag 120  
ctgctgtacc ctctctctac ctctgctgac tgcagcaggt cagagtgggt ctgagggcct 180  
ctctggcagc gctggcctgc cccacctcga g 211

<210> 1355  
<211> 218  
<212> DNA  
<213> Homo sapiens

<400> 1355  
gaattcgcgg ccgcgtcgac aaaggagacc ccgtcaaaaa aaaaagtact tgtcccaaaa 60  
gtttttgttt cctagcttag aatttataat cagattaggt tttggagata aagtatatgt 120  
ggatattttt ttttgagaca gtcttgctct gtcacagggc tggagtgcag tggcgcaatt 180  
tcggctcact gcaacctcca cctcctgggt cactcgag 218

<210> 1356  
<211> 203  
<212> DNA  
<213> Homo sapiens

<400> 1356  
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ttactcttac ttgaaacag ctgtttaaaa tgactcgtaa tctgcttaaa tctacatgct 120  
ttttgtgggt ctcaatccag ttacctacct tccagataat tccctcactg tccgtgcctc 180  
tccattcctc tgatgttctc gag 203

<210> 1357  
<211> 151  
<212> DNA  
<213> Homo sapiens

<400> 1357  
gaattcgcgg ccgcgctcgac caaactcctg ttgctttcgt ctatatcagg tctcatttta 60  
aaagaatatg aggctcattt tactctttct tctccactc ctagtcttcc tttttatatt 120  
tgacattggc agtagttcca gtacgctcga g 151

<210> 1358  
<211> 235  
<212> DNA  
<213> Homo sapiens

<400> 1358  
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gataatctct attttgttgt gcttttttgt aactgtttta aataaatcaa tttgtactgt 120  
atatttgtag ttttgtaga tcctttttgc tgttttacca ttttaagtct ctgtacttgg 180  
ctacacacag attgtatttt tattgttaat gctcttctta tggatagccc tcgag 235

<210> 1359  
<211> 181  
<212> DNA  
<213> Homo sapiens

<400> 1359  
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tgggctgata atgttgaaga caacttcaga agagctggct tgtccccgtg agcacctcga 180  
g 181

<210> 1360  
<211> 185  
<212> DNA  
<213> Homo sapiens

<400> 1360  
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acttgccctc agaagcctat cttggggaggc cacacaccag tgtacctaa gttccctgcc 180  
tcgag 185

<210> 1361  
<211> 278  
<212> DNA  
<213> Homo sapiens

<400> 1361

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gaattcgcgg ccgcgtcgac aagcatcccg cttttatgag tgtcatatat ttccatatct 60
ttttaagat attaatcca agttttgttc ttggagtttt cttttgtttc cttcattgtt 120
tctgcctttt gaagtctttc ttctctttta ttggctttt cagtttattc agggagacgc 180
ttccagccct gtgcagcata ggctgtaac ctgggagtag ggacaggaaa ggggaatgtg 240
ttgagagtcc ccaaggccac cctcaggttc agctcgag 278

```

&lt;210&gt; 1362

&lt;211&gt; 217

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1362

```

gaattcgcgg ccgcgtcgac ccatgatggt gatggcttca tttctccaa ggaatacaat 60
gtataccaac acgatgaact atagcatatt tgtatttcta cttttttttt tagctattta 120
ctgtacttta tgtataaac aaagtcactt ttctccaagt tgtatttgct atttttcccc 180
tatgagaaga tattttgatc tccccaatga actcgag 217

```

&lt;210&gt; 1363

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1363

```

gaattcgcgg ccgcgtcgac aatttcactt ttacctgcat acagactgct cgcagaaagt 60
gattaattct tgatccaggc tcttctatct gcacacaacc tggatcagat tctctctgca 120
gttgctcagg agccacatgc gatttgctga gcatgtgcac tgggtggacag cgagccttcc 180
ctctgcaga ggctacaccg cctccccaca ggctgggtgc agaccagagc tgtcacaggc 240
acttgtagt gtggagtgtc cagagagtag aggtatctc gag 283

```

&lt;210&gt; 1364

&lt;211&gt; 202

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1364

```

gaattcgcgg ccgcgtcgac ccattcttcc gtattgggtt ggggtctctg tttctcatcc 60
tagctttttc ctggaaagcc cgctagaagg tttgggaacg aggggaaagt tctcagaact 120
gttggtctgt cccacccgc ctcccgcctc cccgcaggt tatgtcagca gctctgagac 180
agcagtatca caggccctcg ag 202

```

&lt;210&gt; 1365

&lt;211&gt; 276

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1365

```

gaattcgcgg ccgcgtcgac atttttcatg actctgggct gtgtctactg cagctatgga 60
agttgggacc ttttcggga ggcttatgct gccattgaga cttatcacca gacccacca 120
cccaccttct cttttcgaga aaggatgact cacaagagtc ttgtctacct ctgggttctg 180
tgcagtctg tggcaactgc cctgggtgcc ctaactgtat ggcatgctgt tctcatcagt 240
cgaggtgaga ctagcatcga aaggcacaca ctcgag 276

```

&lt;210&gt; 1366

&lt;211&gt; 365

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1366

```

gaattcgcgg ccgcgtcgac agattggatt gctggcaaag cacagaatgc ctgtatatga 60
tgtaactgta tcaaaaataa aaagctgtca catattttgt aaatttttac cttgtaaaagt 120

```

```

cacaaaaata gtttttaaag gaaaaagtac agtattcttt taataaactg gctcacagtc 180
tggtaggctc acaaccccat agcacaacag gtttatagag atgtatatag aattatagtc 240
cttatttttt tcctttgcgt gaaacctttt ataacagatt aacaatcaac tgcataaata 300
ttattaatat tttaaaaaga gttaagtgtt attttgataa ttcacaaact atcatgcacc 360
tcgag                                           365

```

&lt;210&gt; 1367

&lt;211&gt; 291

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1367

```

gaattcgcgg ccgcgtcgac tgtctggttt ggtgcagtta ccatcacctt caactcaaaa 60
cttcttgagg ggaacatata tttttttcag agcctctgtg tgctgggtta ctgtataact 120
cccttgacag tagcaatgct gatttgccgg ctggtacttt tggctgatcc aggacctgta 180
aacttcatgg ttcggctttt tgtggtgatt gtgatgtttg cctggtctat agttgcctcc 240
acagctttcc ttgctgatag ccagcctcca aaccgcaggg ttctccctat a          291

```

&lt;210&gt; 1368

&lt;211&gt; 242

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1368

```

gaattcgcgg ccgcgtcgac tgcaagatac agaggataag aggaaggaaa agaggaagca 60
gaagaaaaat ctagatcgtc ctcatgaacc agaaaaagtg ccaagagcac ctcatgacag 120
gcggcgagaa tggcagaagc tggcccaagg tccagagctg gctgaagatg atgctaattc 180
cttacataag catattgaag ttgctaattg cccagcctct cattttgaaa caagacctcg 240
ag                                           242

```

&lt;210&gt; 1369

&lt;211&gt; 212

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1369

```

gaattcgcgg ccgcgtcgac accaccttct tcagcaaccc aaccacctca tcttgagaaa 60
ggagaaggaa ctgcaagcca ccaagtcttc atttttcagg gtttgtaatc ttcccaaagt 120
tttcttttga aaataggata atgggtggaa ttttcagagt gattacatac ctcaacattt 180
ttattaacat acaacaatgg gaaagcctcg ag                                           212

```

&lt;210&gt; 1370

&lt;211&gt; 190

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1370

```

gaattcgcgg ccgcgtcgac cgaaaaacac agaccgcttt aacctcttta tttctgtccc 60
ccactgcatg aacatctata caattttaaa aatacttctt cataggatgc tttggccttt 120
catctattta atcatagcta catacctatt ttttataagt agcagtacac attcaaaggg 180
gcattctcgag                                           190

```

&lt;210&gt; 1371

&lt;211&gt; 158

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1371

```

gaattcgcgg ccgcgtcgac ccagccaaga ccaccatgaa gaaagcctat tacctggcat 60
gtggattttg tcgctggacg tctagagatg tgggcatggc agacaaatct gtagctagt 120

```

gcggttgcca ggaacctgaa aatccacaca cactcgag

158

<210> 1372

<211> 114

<212> DNA

<213> Homo sapiens

<400> 1372

gaattcgcg cgcgctcgac cccgctgtca ctttggacaa tggaaatcta ctttttcttt 60  
tccctttttt tttttttgag acagagtctc gccttgtcac ccagggtctc cgag 114

<210> 1373

<211> 193

<212> DNA

<213> Homo sapiens

<400> 1373

gaattcgcg cgcgctcgac gcgacatgaa gtaccacatt tttcagatga tgatgcagta 60  
tctgtactac ggaggaacag aatccatgga gatccccacc actgacatcc tggagctgct 120  
gtcagctgcc agcctgttcc agctggatgc cctgcagagg cactgcgaga tccgtgtgctc 180  
ccataccctc gag 193

<210> 1374

<211> 204

<212> DNA

<213> Homo sapiens

<400> 1374

gaattcgcg cgcgctcgac caaggatcaa gtcacaagg gatctgttag aggtgtcgca 60  
gtggatggat taaaccagtt gacagttaca actggtagtg aaggattact caaattctgg 120  
aactttaaaa acaaaatttt aatccattct gtgagcctca gtccatctcc aaatatcatg 180  
ttgctacata gggacttact cgag 204

<210> 1375

<211> 313

<212> DNA

<213> Homo sapiens

<400> 1375

gaattcgcg cgcgctcgac ctccgtttaa aattcgatc ttttccctta gtaattgttg 60  
ggaagtaata ataccagtat ccttttttct gggaacacct taatcctcca tggcttttagc 120  
attcattgat gttttccaca tgaatcgata cctctatgac gttgccagat cctgtttctt 180  
tatatccgct attccttctg catttgtag ttggcattct actgtaagga ggtgctttct 240  
atattattca gtgagttgta atccattact tttattattt atttatttta ttttaaattgt 300  
cccatttctc gag 313

<210> 1376

<211> 221

<212> DNA

<213> Homo sapiens

<400> 1376

gaattcgcg cgcgctcgac cagaacaacc ctggaagtca atagatggca acagcagaga 60  
gtaaagttag aactccatgg gggagaagaa accctcagga gaggcaggag ctctggcatc 120  
aaccatctct ctgccagaa tctccttcca agttgaagct tcaggagttt gggttcttcc 180  
agggatcatt attggtccga taagattgga aaacactcga g 221

<210> 1377

<211> 168

<212> DNA

<213> Homo sapiens

<400> 1377

gaattcgcgg ccgcgtcgac gaaaaggaaa gaaatgaaga gaattcagag acttccatta 60  
ttattaatac ctattttatt gattctgttt ctagccctga gtccgctcct aacttgctat 120  
aggatctctg gtaaatacatt tcttgtaata agcagctgtc acctcgag 168

<210> 1378

<211> 179

<212> DNA

<213> Homo sapiens

<400> 1378

gaattcgcgg ccgcgtcgac tggatatatt ccagctgtag ttgcccagtg tttacttaac 60  
acatctacat ttttttcttg tctattttgg tccccttgat aggaaaagct ataattttag 120  
gcaggactat acgtcgattt gtagccatgc ttccttcctt tcccttgctc atcgtcgag 179

<210> 1379

<211> 249

<212> DNA

<213> Homo sapiens

<400> 1379

gaattcgcgg ccgcgtcgac cataaaccac agaaatagta taacacacta tttttaaat 60  
atcgttttcc tacttaaat ttgttttagct taagacttct taggacattt gtaaaagcag 120  
gttaaattta ataaggttcc tgattttttt ttgtaaccgg agatagtttt tacaagttaa 180  
ataacatttc agctaaataa aacatcgcta aataattgat atttgatgaa aatctgctcc 240  
tgcctcgag 249

<210> 1380

<211> 253

<212> DNA

<213> Homo sapiens

<400> 1380

gaattcgcgg ccgcgtcgac ttctagacct acccccagtc cgcaggaacg ttagaaatgg 60  
atatacacta aaccataaag agtttgcttg ctttatggca atgttgccga agctgttgaa 120  
catttagtaa aaatgcaaaa tgttctggca cctttaaaaa catctaaact tgttttgtct 180  
tagttcttgc aatgccaccc atacacaaaa gttattaaat atttctctgt gcctgctcac 240  
tacttgcttc gag 253

<210> 1381

<211> 142

<212> DNA

<213> Homo sapiens

<400> 1381

gaattcgcgg ccgcgtcgac ggtgccaagg actactctca atactaaagg ctattttccc 60  
tgccattaag ccacagactt cagtcacatc agtctactgc tttcctccta aacacatcat 120  
gttctttcac atcctcctcg ag 142

<210> 1382

<211> 218

<212> DNA

<213> Homo sapiens

<400> 1382

gaattcgcgg ccgcgtcgac aagacaccag atgaaagtac aaaaactaaa gatcagatcc 60  
tgacttcaag aatcaatgca gtagaaagag acttggttaga gccttctccc gcagaccaac 120  
tcgggaatgg ccacaggagg acagaaagtg aaatgtcagc caggatcgct aaaatgtcct 180

tgagtcgccag cagccccagg caccaggatc agctcgag

218

<210> 1383

<211> 191

<212> DNA

<213> Homo sapiens

<400> 1383

gaattcgcgg ccgcgtcgac atcacttata ctggaatgct cttgggtgtgg ttgcatgtta 60  
cagtgggtatt ggaaattatg cccttgcctca gcaactgtttc atcaaataca tccagtcaga 120  
acaaattaat gctgttgcac ggaccaactt gggagtgtta tacctcaca atgaaaacat 180  
tcagctcgag g 191

<210> 1384

<211> 231

<212> DNA

<213> Homo sapiens

<400> 1384

gaattcgcgg ccgcgtcgac gaccccgaca actacgagta tctgcggcag ctgcagggtcc 60  
tggatttatt tctcgattcg ctgtcggagg agaatagagac cctgggtggag tttgtattg 120  
gaggcctgtg caacctgtgc ccagacaggg ccaacaagga gcacatcctg caccgaggag 180  
gtgtccact catcatcaac tgcctatcca gcccagtgga ggagactcga g 231

<210> 1385

<211> 154

<212> DNA

<213> Homo sapiens

<400> 1385

gaattcgcgg ccgcgtcgac ataacaata tacacatacg acaggcaaca agcttggtttt 60  
tgatttgcca gacatgcac attggctatt gtttgtttgt tttttgtttt tttgtgtttt 120  
ttgggttact ttgaaaatga gccagaacct cgag 154

<210> 1386

<211> 213

<212> DNA

<213> Homo sapiens

<400> 1386

gaattcgcgg ccgcgtcgac cgtctggaac atgcgacttg tcttcttctt tggcgtctcc 60  
atcatcctgg tccttggcag cacccttgtg gcctatctgc ctgactacag gatgaaagag 120  
tggtcccgcc gcgaagctga gaggcttgtg aaataccgag aggccaatgg ccttcccatc 180  
atggaatcca actgcttcga cccaagctc gag 213

<210> 1387

<211> 187

<212> DNA

<213> Homo sapiens

<400> 1387

gaattcgcgg ccgcgtcgac acaagattgt gatttcatta tctaaacctt aaacttaatc 60  
ctttaaattt tgtagctttt ggctgcactt gcccgaagta ctattccagg caaattaaag 120  
ttggaatacc ttttaataat taaaaataat gatagtaaat cttatacttc tgttggccca 180  
tctcgag 187

<210> 1388

<211> 177

<212> DNA

<213> Homo sapiens

<400> 1388  
gaattcgcgg ccgcgctcgac ctctctgatg accagcccaa gcttccttgc ctttaattcg 60  
tcatgcagca ttgcacttaa aagttcaagc ctggagctgg atttccaagt accattctgt 120  
tttctcactt ggggaatgca gttatggctg gacttgacac gcggtcaccc tctcgag 177

<210> 1389  
<211> 127  
<212> DNA  
<213> Homo sapiens

<400> 1389  
gaattcgcgg ccgcgctcgac gattgaattc tagacctgcc tcgagcttat gccctatatt 60  
tttaattatt attattttta acttttggga cacacaaaaa tcagcaattc tcatgaagct 120  
cctcgag 127

<210> 1390  
<211> 219  
<212> DNA  
<213> Homo sapiens

<400> 1390  
gaattcgcgg ccgcgctcgac gctgaatgac acagggagac tacagagtat ttattattac 60  
aaacacataa aaagcctaac ttgaagaatt aaaatttcta ttttttatct gtataacaag 120  
tacaacccat caacaatgac aaattttcac agctgcttgt ttattgcttg ttttatatgt 180  
ttacatatct caaaatctgt taaaactgca ggtctcgag 219

<210> 1391  
<211> 188  
<212> DNA  
<213> Homo sapiens

<400> 1391  
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ttatctgttg ttaagttgaa atgtataatc atttatcact aaattgcaca ttgcctttat 120  
ttatttgtgc tctgtttttg gtttacagtg taataatacc tcatttaaaa aataaaaacc 180  
gactcgag 188

<210> 1392  
<211> 201  
<212> DNA  
<213> Homo sapiens

<400> 1392  
gaattcgcgg ccgcgctcgac gttgaaaaat gttatttttc actcgatggt caaaatctcc 60  
taggaaagca ggggcaaaaag actttttttt ttttttttcc tcctcatgct tggtcatgca 120  
aaagacttta aagagagaaa atgtctcttc cccacttctc tatatacatg ctgggaaaaa 180  
aaagaccgga aggagctcga g 201

<210> 1393  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 1393  
gaattcgcgg ccgcgctcgac ccgcgccatg cagactggtg tcaccgggat catgattgcc 60  
cgtggcgccc tgctcaagcc gtggtctctc acggagatca aggagcagcg gcaactgggac 120  
atctcgtcgt ccgagcgctt ggacatctct cgggacttca ccaactacgg cctggagcac 180  
tggggctcgg acacgcaggg cgtggagaag acccggcgct ttctgctcga g 231

<210> 1394

<211> 128  
 <212> DNA  
 <213> Homo sapiens

<400> 1394  
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 atagtgaattt taaaagtatt atgcagcaaa cgtgtagtat ttttctcatt tcaaccttca 120  
 ttctcgag 128

<210> 1395  
 <211> 199  
 <212> DNA  
 <213> Homo sapiens

<400> 1395  
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 taaagtggta ttgtctacta tctgtacac attctcttac agctcttact gctgcttttc 120  
 ctgtcagtta ccccatagct ccaggatata catgttaact gttcctgaca catgtagaca 180  
 gaaccaatat gatctcgag 199

<210> 1396  
 <211> 148  
 <212> DNA  
 <213> Homo sapiens

<400> 1396  
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 cacaggcact ataaacattt tatttctact ttttacttgt gtatgcttat cattggaagt 120  
 aaatataaca gactttgccg ttctcgag 148

<210> 1397  
 <211> 252  
 <212> DNA  
 <213> Homo sapiens

<400> 1397  
 gaattcgcgg ccgcgctcgac gagaatataa tccagttaga aaactgctat ttgcaaccc 60  
 tcagtaaaat aaatgaaatt gggaaacact aatcaacaaa agtacattt taaatgtgg 120  
 atctggagac aaacctgtgt ctggtcagag ctaccctacg ctatgaactg cctggctgta 180  
 catgacccat ccaatttcac agctgaacca aacttactta ccaccacat tagttttaac 240  
 actacactcg ag 252

<210> 1398  
 <211> 204  
 <212> DNA  
 <213> Homo sapiens

<400> 1398  
 gaattcgcgg ccgcgctcgac cctaaaccgt cgattgaatt ctgacctct ctcaacacac 60  
 tcctcaccgt attttttaac ccatttaaaa aaaaaaatct taaagccaaa attagaaaa 120  
 taactcccta cttttccaaa gtgaatttcg tagtttaatg ttatcatgca gcttttgagg 180  
 agtcttttac actgggaact cgag 204

<210> 1399  
 <211> 393  
 <212> DNA  
 <213> Homo sapiens

<400> 1399  
 gaattcgcgg ccgcgctcgac tatgggttta atagtttttt taatttatat aggggggaatg 60

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atggttgtct ttggatatac tacagcgatg gctattgagg agtatectgc tgtagctcgt 120
agggtcagctc ctgctccttg cagcaaccgc ctccgatcac catcgctcc atctcttcct 180
cctgatcgtc cgcgtcctcc agcgaggagg cactcctcc gtgggccggc cctgaggtct 240
gggccgcccgc tgccacctcc tctcgtcgt cctctcctcc ggccgcccgt ggccggccgt 300
cttctctccc agccggctcc atcgctcccg gcgtcccggg cactcatg ccccggcagg 360
cctaggctgg gcggtgtgga acagccgctc gag 393

```

&lt;210&gt; 1400

&lt;211&gt; 442

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1400

```

gaattcgcgg ccgcgtcgac gctggaggca gccgctggag gtagccagca gcatgcacaa 60
aaagctttcc caactcagtc ctcttccatg ccttcctgaa gccactttaa atactgcaca 120
tctccttaat ccacaggagg actgaagatc tctgggattt caaaaggatg tacagcagtg 180
aagatgcctt gagtaggatg ttcacagagg cagccagctc cttatccagc atggccgcct 240
tcgtcaggct cctggagaat attcatccag tcttccagag gcatgacgct ccgcctcctc 300
ttgacagggtg gctggcccag gatcaagatt cccctccagg ccaccgctcc acctggggag 360
gcctcagccg cgcccgtagc cgcggtggcc tccataacgg ctgcagtcgt ccccgccatg 420
agcctggttt tggagcctcg ag 442

```

&lt;210&gt; 1401

&lt;211&gt; 282

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1401

```

gaattcgcgg ccgcgtcgac gaggtatcgg cttattatat gcttcttctc catgggaagt 60
aatatattaa aattcatttt tatctacagt gtggcccttg gtggggaaaa gctccccatt 120
cctgctctga ggagtgaact ccaatactgg ggcttgccca tgggtgctgc cacacccag 180
agagaggcga tgcaagcctg ctcccaggcc tgctctccct cctcgacaaa ctggccatct 240
gttctctggg aaaaagagca gccttctgt atcttctctg ag 282

```

&lt;210&gt; 1402

&lt;211&gt; 330

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1402

```

gaattcgcgg ccgcgtcgac gcttctctct tttgtgataa tccagtecca agttccttat 60
tattctgaat aatgaaata gcttctggta gacagtaatt ttctacatga ggaggtgatt 120
cctgcatgag ataactagca atgtattctg ttctcaagca gtacacgttc tgggcagcag 180
cttctgctat attaaactct gagtcactct gtttcagttt attcaagtca gaaaaaagat 240
gtgtggcctc tttaaataaa ggtacagaat gaccaggtag cacccttgct cctcctgact 300
gaagaaggcg tttgaagcct gcttctcgag 330

```

&lt;210&gt; 1403

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1403

```

gaattcgcgg ccgcgtcgac ctgggtgttt ctcatctttg tttatctcta ctctgcagtc 60
tccccacccc tacttggatg tttgttggtg tgtttattgc attttcttat cctgcctggt 120
tctcacccgt tttttccgc atgggcgtat caaccttgct gggtgtggt ggccctccgc 180
ctagctctga ccctggcctg gccttctggt tccacccag ctcaatccct gtctttgttg 240
cttcgttggt ccagagttcc ctcgag 266

```

&lt;210&gt; 1404

&lt;211&gt; 256

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1404

```

gaattcgcgg ccgcgtcgac cctaaaccgt ccccatgaac tccgcactca tcaagtggct 60
gtacctgcct gatttcttcc gggcccccaa ctccaccaac ctcatcagcg actttctcct 120
gctgctgtgc gcctcccagc agtggcaggt gttctcagct gagcgcacag aggagtggca 180
gcgcattggct ggcgtcaaca ccgaccgcct ggagccgctg cggggggagc ccaaccccg 240
gcccactttt ctcgag                                     256

```

&lt;210&gt; 1405

&lt;211&gt; 273

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1405

```

gaattcgcgg ccgcgtcgac ggtggcatct gagaggtggt tctgtgactg tggttggggg 60
agggtgggagc tgttttaacc gtgtgcccc tctctgtgct cggcgtgggc atccccggg 120
gcagtgggaa gcggggcgctc ctccagcttc cgagtccagc cagcctgggc gcggggcgcc 180
gcccccgaga cacccgagga gtccgttctt ccctggttac gtggactgtg gagctggtct 240
cttgtggctc agcgcctgct ggaggtactc gag                                     273

```

&lt;210&gt; 1406

&lt;211&gt; 271

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1406

```

gaattcgcgg ccgcgtcgac agagccgtct ttctttctcc aacagttgcc ttccatggt 60
ccaacaaatg aaactgttta ccattctcca tgggccttgt cctctctcac ttctgggct 120
ttgcacaagt tatttctctt gtaaaacact tcttccaatc ctacctaac ttgctttccc 180
ctgggggctc ccacagcacc cagtacgcat agctcaaagc actgtcatac cttctgtgat 240
ggcctctca gtagaccatg agttcctcga g                                     271

```

&lt;210&gt; 1407

&lt;211&gt; 395

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1407

```

gaattccggc cgcgtcgacg aagtgccaga ttcttttagg gctccaagag ttcatctgt 60
ccacacagaa ggacggctgc agcatgaatg gccatttctg tcaccgttcc atcaagggtg 120
ctgtcactag gccccgccct caacaatggc acagaattgt ccacgagcga tgttgcaaaa 180
cggtgatata caggaggtga aaggatcttg cattcgccaa tgaatttgc cagagcttca 240
cattgctctg gcgtgggggt gaggcttgca ttgtgggac tgtacaaaat agccacctct 300
ctaaacagtg ttaacaggaa gtaggctgac tgctggcttt ggggggtctt gcaggccttc 360
agagcagttt taatgccag tggcttgac tcgag                                     395

```

&lt;210&gt; 1408

&lt;211&gt; 306

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1408

```

gaattcgcgg ccgcgtcgac cgagatgttg ctgctgctgc tactggcgcc actcttcttc 60
cgcccccggg gcgggggggg ggtgcagacc cccaacgcca cctcagaagg ttgccagatc 120
atacacccgc cctgggaagg gggcatcagg taccggggcc tgactcggga ccaggtgaag 180
gctatcaact tctgcccagt ggactatgag attgagtatg tgtgccgggg ggagcgcgag 240
gtggtggggc ccaaggtccg caagtgcctg gccaacggct cctggacaga tatggacaca 300

```

ctcgag

306

&lt;210&gt; 1409

&lt;211&gt; 368

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1409

```
gaattcgagg ccgcgtcgac gccatgcacc gtctaccgct gctgctcctg ctgggcttgc 60
tgctcgagg ctccgtcgcc cctgcgcgcc tcgtcccgaa gcgcctttcc caacttggtg 120
gcttctcctg ggataactgt gatgaaggaa aggaccctgc agtgatcaaa agcctcacga 180
tccaaacctga cccattgtg gttcctggag atgtagtcgt cagccttgag ggcaagacca 240
gcgttccctc cactgctcct cagaagggtg agctcaccgt ggagaaggaa gtggctggct 300
tctgggtcaa gattccttgt gtagaacagc taggcagctg tagctacgag aacatctgtg 360
acctcgag
```

&lt;210&gt; 1410

&lt;211&gt; 340

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1410

```
gaattcgagg ccgcgtcgac ggcattgggg gacagaggag gtgggacctg gcagaccac 60
agctcccaag ctgggggtccc ggaggcagag tgacaatgca tggctgtgtg ggagccaggc 120
aggcgggtgac gtggcagagc tgccagcagg ggcccaagag actgcagcag gttggtgctc 180
acagtggatc tgagggatgg gcgtgcgtgg cagggccttg gccatggccc ctgaccaacc 240
cctgtgcacc aaacaccaca ctgagctcag aatccgggca gagagggaac cactggtaca 300
gtgaggccaa ggcacacgca gccggggcctg cagactcgag
```

&lt;210&gt; 1411

&lt;211&gt; 276

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1411

```
gaattcgagg ccgcgtcgac taaaccgtcg atgaattctc ccaccagca gctgaaggga 60
gaaagacgag gaggcaggga gcagacgagg aggtggggag caggcagccc gggcctcaga 120
ggacacatgg ccttcccccg ctggcacccc cacatcaggg ccaccagggg actgctcaca 180
cccaggggtt gccgcctctg gacctggctg tccctggttc tgctgacctc aggagtgacc 240
tgggcttaca gaggtactgg caaggaggga ctcgag
```

&lt;210&gt; 1412

&lt;211&gt; 281

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1412

```
gaattcgagg ccgcgtcgac ctcatgtcca tgatggtatg gagcatcacc taccacagct 60
ggctgacctt cgtactgctg ctctgggcct gcctcatctg gacagtgcgc agccgccacc 120
aactggccat gctgtgctcg cctgcatcc tgctgtatgg gatgacgctg tgctgcctac 180
gctacgtgtg ggccatggac ctgcgccctg agctgccac caccctgggc cccgtcagcc 240
tgcgccagct ggggctggag cacaccgctt acccctcga g
```

&lt;210&gt; 1413

&lt;211&gt; 450

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1413

```
gaattcgagg ccgcgtcgac ctaaaccgtc gattgaattc tagacctgac ccgttccgct 60
```

```

gtgtacaccc tgaacctggc actggcggac ctgatgtatg cctgttcact acccctactt 120
atctataact acgccagagg ggaccactgg cccttcggag acctcgctg ccgctttgta 180
cgcttcctct tctatgccaa tctacatggc agcatcctgt tctcacctg cattagcttc 240
cagcgctacc tgggcatctg ccacccctg gcttcctggc acaagcgtgg aggtcgccgt 300
gctgcttggg tagtgtgtgg agtcgtgtgg ctggctgtga cagcccagtg cctgcccacg 360
gcagtctttg ctgccacagg catccagcgc aaccgcactg tgtgctacga cctgagccca 420
cccatcctgt ctactcgcta cccactcgag 450

```

<210> 1414

<211> 345

<212> DNA

<213> Homo sapiens

<400> 1414

```

gaattcgcgg ccgcgtcgac cgattgaatt ctagacctgc ctcgcacccc caatctcaac 60
cccaaccccc tcatcaacgt gcgcgaccgg ctcttcacg cgctgttctt caagatggct 120
gtcacctatt cgcggctctt cccgcccgc ttccgcccgtc tcttcgagtt cttcgtgctg 180
ctcaaggccc tgtttgtgct cctcgctctg gcctacatcc acatcgctct cctccgctcg 240
cccatcaact gcctggagca tttctgtgac agcggcggcc gcgggagctt cccgggcctg 300
gcggtggaac caggcagcaa cctggacatg caagatgagc tcgag 345

```

<210> 1415

<211> 355

<212> DNA

<213> Homo sapiens

<400> 1415

```

gaattcgcgg ccgcgtcgac acttttttct ctttctgtat cctgttcaag aaatagtgtg 60
ctactccaag gtcattcaga tgttttttct taaatgcttt attgtcttct cttttatttt 120
ttatatctat ggtctatttg gtatggcttc gtgtgtgtgg tgtgaggtag ggattgagat 180
tttttttttt ccattgggat atctgattga cccagcatca ttttctaaaa gatgccttct 240
ctcattgcac tgcggcgcct cctgtgtgct tttgacaggg atgacaggga tgaggatgat 300
aaagaatagg catagcgtgt ctttctcttg tgagacacag ggactccaac tcgag 355

```

<210> 1416

<211> 412

<212> DNA

<213> Homo sapiens

<400> 1416

```

gaattcgcgg ccgcgtcgac aactcgggtga acaactgagg gaaccaaacc agagacgcgc 60
tgaacagaga gaatcaggct caaagcaagt ggaagtgggc agagattcca ccaggactgg 120
tgcaaggcgc agagccagcc agatttgaga agaaggcaaa aagatgctgg ggagcagagc 180
tgtaattgctg ctgttgctgc tgccttgac agctcagggc agagctgtgc ctggggggcag 240
cagccctgcc tggactcagt gccagcagct ttcacagaag ctctgcacac tggcctggag 300
tgcacatcca ctagtgggac acatggatct aagagaagag ggagatgaag agactacaaa 360
tgatgttccc catatccagt gtggagatgg ctgtgacccc ccagaactcg ag 412

```

<210> 1417

<211> 110

<212> DNA

<213> Homo sapiens

<400> 1417

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gaattcggcc aaagaggcca ttcaaaaagg ggttaagagt taaaatgggtg tgtgcagctg 60
taactctgga gctatcttat ctcttaatga cagttaagga gagtctcgag 110

```

<210> 1418

<211> 105

<212> DNA

<213> Homo sapiens

<400> 1418

gaattcggcc aaagaggcca ttcaaaaaaa cgtgagaagt atttttgtac cctgtgtaac 60  
aaaatattta tgcatacataa aggatttttc atatgcgtac tcgag 105

<210> 1419

<211> 103

<212> DNA

<213> Homo sapiens

<400> 1419

gaattcggcc aaagaggcca ttcaaagacc tgccctgaga ggtctcgagg caggctctaga 60  
attcaatcgc ctcagaaggc caaagaggcc attcgtcttc gag 103

<210> 1420

<211> 105

<212> DNA

<213> Homo sapiens

<400> 1420

gaattcggcc aaagaggcca ttcaaaattt gactgtttat aaagaaagt gctttatttc 60  
tttaaacatc ttcaaaagat gatcctttct tgtcacattc tcgag 103

<210> 1421

<211> 111

<212> DNA

<213> Homo sapiens

<400> 1421

gaattcggcc aaagaggcca ttcaaaaatg tatggaaatt caactaattt ttggtgctgt 60  
tattctattc ttcaaatcca ctgcatatgt tttttagttc cagtactcga g 111

<210> 1422

<211> 125

<212> DNA

<213> Homo sapiens

<400> 1422

gaattcggcc aaagaggcca ttcaaaaaaa agattcagca aattgcttaa aatcgaggta 60  
actagcaagc atatatcaag ggatacatga ctcggcttct gtctagtttc aaagccgtac 120  
tcgag 125

<210> 1423

<211> 103

<212> DNA

<213> Homo sapiens

<400> 1423

gaattcggcc aaagaggcca ttcaaaaaat ttgaattcag aagataagca ggtaaaattt 60  
atcacaaagat tgtgtggttaa tgagagttaa gtggctcctc gag 103

<210> 1424

<211> 126

<212> DNA

<213> Homo sapiens

<400> 1424

gaattcggcc aaagaggcca ttcaaaaatg aaatgcattt ctagtgtgaa cttaattgcc 60  
acttggcttg atattatttt ccttagaatt gttggaatag aggagagagg aaggagagcaa 120

ctcgag 126

<210> 1425  
<211> 141  
<212> DNA  
<213> Homo sapiens

<400> 1425  
gaattcggcc aaagaggcca ttcaaagatt gtaaatagct tacaatttac aaataataaa 60  
tatacaatgc tgtttatcat aaaaatccac ttagccaatt ggttcttaca aaatgttttt 120  
gttaatatatt gcgaactcga g 141

<210> 1426  
<211> 133  
<212> DNA  
<213> Homo sapiens

<400> 1426  
gaattcggcc aaagaggcca ttcaaaaaca ggaatttgag cacaagatga gaaaatgtgt 60  
tggcccttta gcgctggtgg gctggatggc ggccacagca cacgggggca cctcattccg 120  
caggagctc gag 133

<210> 1427  
<211> 106  
<212> DNA  
<213> Homo sapiens

<400> 1427  
gaattcggcc aaagaggcca ttcaaagtca gatgaaaac tttttattct caaaattgtt 60  
tttcagttcg gtaaataatt tgagtgtgta tgcacgcggt ctcgag 106

<210> 1428  
<211> 109  
<212> DNA  
<213> Homo sapiens

<400> 1428  
gaattcggcc aaagaggcca ttcaaaaataa ttggaatata cttttcttaa aaaaaaggaa 60  
cagttagttc tcattctaga tgaaagttcc atatatgcat tggctcgag 109

<210> 1429  
<211> 190  
<212> DNA  
<213> Homo sapiens

<400> 1429  
gaattcggcc aaagaggcca ttcaaaaataa acacagtaag tactcagaaa ctacttgaag 60  
agtcagttc tcagtagaga tgatcgaaac atttgttttt ctagggaata tttttgcctt 120  
tctttctcca gaatcctctg gttataatgt gctcactgct aggtcaccag tcataaaaca 180  
taaaactcgag 190

<210> 1430  
<211> 111  
<212> DNA  
<213> Homo sapiens

<400> 1430  
gaattcggcc aaagaggcca ttcaaaaata atgatatttg gcctctactt tgtcttagct 60  
gttaaaactgt ttttagtatt tttgttaaat atttgcaaag ggaaactcga g 111

<210> 1431  
<211> 103  
<212> DNA  
<213> Homo sapiens

<400> 1431  
gaattcggcc aaagaggcca ttcaaaaaag agaaggtctc ttccttattg atatcatggt 60  
atgcattaat tccatttggt actattgtgc acaggccctc gag 103

<210> 1432  
<211> 178  
<212> DNA  
<213> Homo sapiens

<400> 1432  
gaattcggcc aaagaggcca ttcaaaaaag aaagcagctg ggactaatga actttacatt 60  
agccatattc cattatttca gcttaagtca aatgtcggtc ctcatgaggc aactggcttt 120  
gacaggagct acgctaatta ccacttacca acctttaatt tctgggcaaa acctcgag 178

<210> 1433  
<211> 115  
<212> DNA  
<213> Homo sapiens

<400> 1433  
gaattcggcc aaagaggcca ttcaaaagta ggggtttctc actctgcttt tcttcctgtg 60  
gggcttcggg gtgctgtact gttgtcccct catttgcagc aggtatcacc tcgag 115

<210> 1434  
<211> 102  
<212> DNA  
<213> Homo sapiens

<400> 1434  
gaattcggcc aaagaggcca ttcaaaaatg cagtatttat tctttgtagg cataatgtgt 60  
ttgtcactga caagcattca tgttcatacc actagtctcg ag 102

<210> 1435  
<211> 125  
<212> DNA  
<213> Homo sapiens

<400> 1435  
gaattcggcc aaagaggcca ttcaaaaaaa atagaaagta aatagttcta agaattattct 60  
ggcataaatt atttttattt agccaataaa atagcctcca aatgtatatc tcagttgccc 120  
tcgag 125

<210> 1436  
<211> 104  
<212> DNA  
<213> Homo sapiens

<400> 1436  
gaattcggcc aaagaggcca ttcaaaaagt attgcttaat agaaagttag tagaacttat 60  
attcgatcat gttattgagc acatacttac gggcagttct cgag 104

<210> 1437  
<211> 125  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 1437

gaattcggcc aaagaggcca ttcaaaagga ggtcaccaag aaacatcagt atgaaattag 60  
 gaattgttgg ccacctgtat tatctggggg gatcagtcct tgcattatca tggaaacacc 120  
 tcgag 125

&lt;210&gt; 1438

&lt;211&gt; 206

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1438

gaattcggcc aaagaggcca ttcaaaaaaa gcagaatggt ttcttcagaa ggccaaagag 60  
 gccattcaaa aaaagcagaa tgttttcctc agaaggccaa agaggccatt caaaaaagca 120  
 gaatgttttc ctcaagaaggc caaagaggcc attcaaaaaa gcagaatggt ttcttcagaa 180  
 ggccaaagag gccattcaaa ctcgag 206

&lt;210&gt; 1439

&lt;211&gt; 104

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1439

gaattcggcc aaagaggcca ttcaaaaaga taaaattaaa aagccagaca tactttctat 60  
 caagctgcgt aaagagaaac atgaagtaca aatggatcct cgag 104

&lt;210&gt; 1440

&lt;211&gt; 120

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1440

gaattcggcc aaagaggcca ttcaaacctc cagaaggcca aagaggccat tcaaacctc 60  
 agaaggccaa agaggccatt caaacctcga gaaggccaaa gaggccattc aaacctcgag 120

&lt;210&gt; 1441

&lt;211&gt; 119

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1441

gaattcggcc aaagaggcca ttcaaaaaca tattttaagc caagtttttag gtgtattttt 60  
 tgaatcttgg ttataaaccc aattttaaag ggcgatgtat gccagcgttg ttactcgag 119

&lt;210&gt; 1442

&lt;211&gt; 123

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1442

gaattcggcc aaagaggcca ttcaaaagta ttttgaactt agctcatcaa aggccataaa 60  
 taatctgtaa acatgtttta taataaaaaa atcactaaag ctgatcccaa agagccactc 120  
 gag 123

&lt;210&gt; 1443

&lt;211&gt; 115

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1443

gaattcggcc aaagaggcca ttcaagatt aataatgagc ttttgtttta cgtttttgag 60

cctgcttctt gcatgcataa aattaatact tcagccctct tccaaagaac tcgag 115

<210> 1444

<211> 128

<212> DNA

<213> Homo sapiens

<400> 1444

gaattcggcc aaagaggcca ttcaaaccat tcaaacctca gaaggccaaa gaggccattc 60  
aaaccattca aacctcagaa ggccaagag gccattcaaa aaaaagtaaa acttgctgct 120  
gactcgag 128

<210> 1445

<211> 110

<212> DNA

<213> Homo sapiens

<400> 1445

gaattcggcc aaagaggcca ttcaaaaaa tttgattgta cttataagaa caatacattg 60  
ttttataat gttaatattc tgttttgct ttataattcc cacactcgag 110

<210> 1446

<211> 118

<212> DNA

<213> Homo sapiens

<400> 1446

gaattcggcc aaagaggcca ttcaaaagac ctgcattcta gctgttgtga caactgaccg 60  
aacgtctagc accacactct cactaagaat ttcactgatg aggcggtggt ttctcgag 118

<210> 1447

<211> 121

<212> DNA

<213> Homo sapiens

<400> 1447

gaattcggcc aaagaggcca ttcaaaaagg agttgtgtgt gtgttttgca tacaacttta 60  
caatttcata gttgaaagct gttacaaaat gaaagttttg tgtatggtag gaattctcga 120  
g 121

<210> 1448

<211> 152

<212> DNA

<213> Homo sapiens

<400> 1448

gaattcggcc aaagaggcca ttcaaaaatt aactgaggca ggtgatcggt tttttaagct 60  
gattagggaa acagtatata agaacttact taactcataa taaaactaaa attcaacagg 120  
ggagagttat gatttttttg ctgcctctcg ag 152

<210> 1449

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1449

gaattcggcc aaagaggcca ttcaaaaaa atgaggattg ccttccttgt atgcgctttt 60  
taccttgact acctgaattg caagggattt ttatatattc atatgttaca aagtcagcaa 120  
cgctcgag 129

&lt;210&gt; 1450

&lt;211&gt; 133

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1450

```

gaattcggcc aaagaggcca ttcaaaaaag agtaggctat aagggaagat tgtcaatatt 60
ttgtggtaag aaaagctaca gtcatttttt ctttgcaatt tggatgctga aatttttccc 120
atggatcctc gag                                     133

```

&lt;210&gt; 1451

&lt;211&gt; 101

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1451

```

gaattcggcc aaagaggcca ttcaaaaatt acgcattttc tttatcccca gaatagacat 60
acataaaaat aatgcatact aagttcctgg caattctcga g                               101

```

&lt;210&gt; 1452

&lt;211&gt; 142

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1452

```

gaattcggcc aaagaggcca ttcaaaagta taaaacaagc aaagaaggga gtgtaatggg 60
agttacagta tcccggcttg caatgttgtc tcaactgccaa gctctgtcgc aggcctgcaa 120
ttattctgaa ggggcgctcg ag                                     142

```

&lt;210&gt; 1453

&lt;211&gt; 102

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1453

```

gaattcggcc aaagaggcca ttcaaacata aacataagca taaacataag aaacacaaaa 60
gaaaagaggt tattgatgct tctgataaag aggggtactcg ag                               102

```

&lt;210&gt; 1454

&lt;211&gt; 111

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1454

```

gaattcggcc aaagaggcca ttcaaacata atgtcagaat taattttaa ac aaattataat 60
taatgtaata tgatttttagg aaagatgaaa cactttatga gagccctcga g                               111

```

&lt;210&gt; 1455

&lt;211&gt; 132

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1455

```

gaattcggcc aaagaggcca ttcaaaaata aaattattga acagcttagc cctcaagctg 60
ccaccagcag agacatcaac aggaactag attctgtaaa acgacagaag tataataagg 120
aacatcctcg ag                                     132

```

&lt;210&gt; 1456

&lt;211&gt; 136

&lt;212&gt; DNA

<213> Homo sapiens

<400> 1456

gaattcggcc aaagaggcca ttcaaaaaat aaagtgactg aactgtcaga tcaacaagat 60  
 caagctatcg aaacttctat ttgaattct aaagaccatt tacaagtaga aaatgatgct 120  
 taccctgatt ctcgag 136

<210> 1457

<211> 104

<212> DNA

<213> Homo sapiens

<400> 1457

gaattcggcc aaagaggcca ttcaaaaaata tgatcgaaga aataaagacc ccagcctcta 60  
 cccccgtgtc tggaaactcct caggcttcac ccatggtcct cgag 104

<210> 1458

<211> 111

<212> DNA

<213> Homo sapiens

<400> 1458

gaattcggcc aaagaggcca ttcaaaaaatc gaaaaggaaa atactttaac gttgaaagag 60  
 ttggtcagta cttgaaagat gaagatgatg atcttgtgtc acccctcga g 111

<210> 1459

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1459

gaattcggcc aaagaggcca ttcaaaaaag gaagaaaaaa acagatttac accacagata 60  
 gtgatgagat ttcacatatt gttaatcgta ttgctcctca gccaaaggat gaaaaaccaa 120  
 caactcgag 129

<210> 1460

<211> 111

<212> DNA

<213> Homo sapiens

<400> 1460

gaattcggcc aaagaggcca ttcaaaaaaa aagaaagtta tttctttgtc ttaaagaatt 60  
 tttaaaaaat tagtcatgag acttattcat ctttccaggg aacttctcga g 111

<210> 1461

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1461

gaattcggcc aaagaggcca ttcaaaaacta aaataaaaaca tatgtgtcta tggttttcaa 60  
 ttggagtagt ctttcttact ttcccccttc cctcttttgg ttctcctaac cagcttagag 120  
 gacccaaaga gagcttaggg atagacacca gaatactctg tggaggtctc gag 173

<210> 1462

<211> 141

<212> DNA

<213> Homo sapiens

<400> 1462

gaattcggcc aaagaggcca ttcaaaaatc aagagtttga gagcgtccgg ctgaatgaga 60  
cactttcatc attttctgat gacaataaga ttacaattag actggggaga gcacttaaaa 120  
aaggagaata cagagctcga g 141

<210> 1463  
<211> 123  
<212> DNA  
<213> Homo sapiens

<400> 1463  
gaattcggcc aaagaggcca ttctgaggcg gttggtgggt caatggtgaa gatacagtct 60  
tttcttaaat cccttctctt gctgaactcc tctggtggaa ttgtccatgg caggtcactc 120  
gag 123

<210> 1464  
<211> 105  
<212> DNA  
<213> Homo sapiens

<400> 1464  
gaattcggcc aaagaggcca ttcaaatatg tatcggattg ttttaatggt atatattgga 60  
ttgtattcga tgttacaaaa ccaatatctt atggagtccc tcgag 105

<210> 1465  
<211> 117  
<212> DNA  
<213> Homo sapiens

<400> 1465  
gaattcggcc aaagaggcca ttcaaagtat atcacacatt tagaagtaca aattaatcca 60  
ttttgcttta tgaattcatt ttacattat ataactctc ttacattctg tctcgag 117

<210> 1466  
<211> 102  
<212> DNA  
<213> Homo sapiens

<400> 1466  
gaattcggcc aaagaggcca ttcaaagaat tgaacacatt taatttcaaa ttcaaataga 60  
acatttaaaa tgatttcatt attattaccc atactcctcg ag 102

<210> 1467  
<211> 118  
<212> DNA  
<213> Homo sapiens

<400> 1467  
gaattcggcc aaagaggcca ttcaaaaaaa ttttgcatca tacttatggg taatatcttt 60  
ttcatatatt atttatcaaa gtatgaagt gagtattttg cttgtaccac tcctcgag 118

<210> 1468  
<211> 107  
<212> DNA  
<213> Homo sapiens

<400> 1468  
gaattcggcc aaagaggcca ttcaaaaatc ataaatatag aaacagtagt aatacagctg 60  
acattaccat ttaattttat attatgaaag caaatcatct gctcgag 107

<210> 1469

&lt;211&gt; 433

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1469

```

gaattcgcg cgcgctcgac ccaacccag gttatcttcc cctttgtctt ccagccccc 60
agaacagct acgactcaac ctaccaatc atttcatcat cagattgcc ctgtctctag 120
ttcaggcttc ttgggactgg cactcagaaa tctcataata aatcctcttg aggcttctca 180
tacactcgtc ttcttccaat ctcttttccc tcaaaatctc atatttttgt tccacttcac 240
ccaccgtcat tctccatata actcccagga gttaggcaaa aagcccttc cgttcttccg 300
tatgttaaac ttagaatcac tctgttcctt gctctgcgtt tctatttttt gttttcctcc 360
atttactagt agcttaacac tttctaacag tgttcttatt attgatacgt atctatctct 420
tccaaagctc gag                                     433

```

&lt;210&gt; 1470

&lt;211&gt; 158

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1470

```

gaattcgcg cgcgctcgac ccctgtgtgt ttctgttact tgctagccac aaagtccttg 60
caaacagaaa ctttagatcc actgcctcct ttactcttcc tctctatagc gctgtgaagc 120
aaatgtcctg catcatcccc attgcacaca cgctcgag                                     158

```

&lt;210&gt; 1471

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1471

```

gaattcgcg cgcgctcgac ctaaaattct gatttgcatt gtgggtttta ggggttcagat 60
tagcaagtgg gattgttttt tagcacttaa atccctcact tcatgctctg tttgcacaaa 120
tctaaagagg cactggtatg tctaaagagg cactggtatt gtttattacc tctagtgtga 180
tttgactttg ggattgtaga gaaaaataat ttccttttgt gggatggggg aagaatccca 240
tgccagtatt catcatatgg gaccctcgag                                     270

```

&lt;210&gt; 1472

&lt;211&gt; 359

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1472

```

gaattcgcg cgcgctcgac ctaattatgt aattatgtaa gctagctttt catgtttatg 60
tatgtatggg gtccccttgt gttattttcc tccctcttgg tttttgaatt agtgttaaatt 120
agaatactgt ctgattcttt aaaatatttt catttccatc atgggtataa caaatttgct 180
gcatgcccac actgacaaca gcaatcactg agggacacag ttttgaatct ttcttttgtg 240
ttatgaagtt tatcgtctct acttgcttga gatttttgtt attttggggg tttgggggtg 300
ctttttgttt tgtttttgcc aaatgtaaca tgaaagcaga tgctgcagct tctctcgag 359

```

&lt;210&gt; 1473

&lt;211&gt; 407

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1473

```

gaattcgcg cgcgctcgac gaaatcatgg actaccagag cagacttaag aatgctggtg 60
aagagtgcaa gagcctcagg ggccagcttg aggagcaagg ccggcagctg caggctgctg 120
aggaaagctg ggagaagctg aaggccaccc aagcagacat gggagagaag ctgagctgca 180
ctagcaacca tcttgcagag tgccaggcgg ccatgctgag gaaggacaag gagggggctg 240
ccctgcgtga agacctagaa aggaccaga aggaactcga aaaagccaca acaaaaatcc 300

```

aagagtatta caacaaactc tgccaggagg tgacaaatcg tgagaggaat gaccagaaga 360  
 tgcttgctga cctggatgac ctcaacagaa ccaagaagta tctcgag 407

<210> 1474

<211> 521

<212> DNA

<213> Homo sapiens

<400> 1474

gaattcgcgg ccgcgtcgac attgaattct catgcctcac ctctcctcag tagctgggat 60  
 tacaggcgtg caccaccaca ccctgctaatt ttttgatatt ttttagtaga gacggagttt 120  
 tgccgtgttg gccaggctgg tctcaaaactc ctggcatcaa gtaatctgcc tgcctcagct 180  
 tcccaaagtg ctgggattac aggcataagc caccgtgccc ggcctatttt cggcattttt 240  
 atatcctgtt gtatttaggc tctttttgta gacctcctat ttctagatct tttaaaaatc 300  
 caatcccaga gtttggtgtc tttttttctc tctctcattt aatagggtga attttctttt 360  
 cctagtttga aatgtacaca tttcattgtg tttcagttaa aattttggtc attatcccaa 420  
 accaatctat gcttacattt atacgtttgg tttcttttat tgtgttata agtatcttta 480  
 tatcactcac tgccttcaac ataaatacct tgacactcga g 521

<210> 1475

<211> 381

<212> DNA

<213> Homo sapiens

<400> 1475

gaattcgcgg ccgcgtcgac agaagttgct ggtcttgaca tgaatatcag ccaatttcta 60  
 aaaagccttg gccttgaaca ccttcgggat atctttgaaa cagaacagat tacactagat 120  
 gtgttggtctg atatgggtca tgaagagttg aaagaaatag gcatcaatgc atatgggcac 180  
 cgccacaaat taatcaaagg agtagaaaga ctcttaggtg gacaacaagg caccaatcct 240  
 tatttgactt ttcactgtgt taatcaggga acgattttgc tggatcttgc tccagaagat 300  
 aaagaatatc agtcagtgga agaagagatg caaagtacta ttcgagaaca cagagatggg 360  
 ggtaatgctg gcggtctcga g 381

<210> 1476

<211> 118

<212> DNA

<213> Homo sapiens

<400> 1476

gaattcgcgg ccgcgtcgac cttaggctcag gttctgtcaa gttaccaaca gaagctactg 60  
 attgtaaaat ttcaattaca ctcttatcct gtcaagtaaa atggtaggca gtctcgag 118

<210> 1477

<211> 179

<212> DNA

<213> Homo sapiens

<400> 1477

gaattcgcgg ccgcgtcgac tggaatcata ggatgtggag gatgggtactc atacactgtg 60  
 tctgcctctg ggtggggggc acaggactgg ttcagtcctg ctctggatgg agtcagtcag 120  
 ttgccagaat gcagaagtcg gaaaaacatc tcaaaagacc agtcttgcca gagctcgag 179

<210> 1478

<211> 279

<212> DNA

<213> Homo sapiens

<400> 1478

gaattcgcgg ccgcgtcgac taggagtgaa tatgtgggtc ccttttgtaa tgcacaatag 60  
 aattgttctc ccaatttttt ttttttttgc ctgtcacttc atactctatt ctatttactt 120

```

ccctttctag ttagtaaggc atgttgggtg aactccccct ttttggcaaa aaggcattta 180
cctttctctt cccattacc actaccagca caccaatata gattttcccc ctgctcagg 240
gaggccatga ctggaggag gggtaaggag cctctcgag 279

```

&lt;210&gt; 1479

&lt;211&gt; 144

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1479

```

gaattcgcg cgcgctcgac gtcttgggtc agattataaa aattacaatt gattacataa 60
aacttaatta accttttctt tctctctcat agatactctt catatcaatt tatgtatttc 120
caagtactat acccattact cgag 144

```

&lt;210&gt; 1480

&lt;211&gt; 209

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1480

```

gaattcgcg cgcgctcgac gccagcatgg tcaacttctg gcgagagctc tcttcttgg 60
atgtaaatgc ccacttctc atgtcttcac aggaaggaaa ccaacaaata ggtctctctc 120
tctctctctc tttctctctc ctctctctc ctcttctctc ctctctctcc accatctctc 180
tcttctctcc cctctctcca gcctctcgag 209

```

&lt;210&gt; 1481

&lt;211&gt; 532

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1481

```

gaattcggcc aaagaggcct aagtgacttt agtagaagct attgagaaaa gactgatcag 60
ccctgaactg gcaaatatga tccaaataga tagttcagag ttcagcgatc acagggctca 120
gattgaaaag caagaaggga ttgaagtgtg tgcattacaa aatgaatttc taggaaagga 180
tatgttaatt gcttgtaatc agactgctga aatgagttgt aataaagtag aagagagtga 240
gagattatct caagttgaaa atcagtctgc acaagaaaag gttaaagtga gagtttctga 300
tgaggagcag gcaaaaaaga gcagggaat ttccttaaag gaatttgggt gcaaggatca 360
acgtaagcca agaattgtct cagatgctaa agaattttatc agtatcataa atcctcataa 420
tcttaaaggt aaatccttgg gccaaagtgc attgacacac cttactctg aatgtgattt 480
taaacttaaa gaagtggcta gaaataacat gggaaatgat acaaacctcg ag 532

```

&lt;210&gt; 1482

&lt;211&gt; 585

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1482

```

gaattcggcc aaagaggcct agatcagtag cattaacaaa agttgcttta aaagccatta 60
tgtaaaacaa gacttgaaaa tgagtggagg aatttttagcg acactgtctg agcagcagtg 120
ggaaccatct tcgtttcccc ttgaaactcc cagtgggatg ccctaccctg cgcccttagg 180
acccggactg accgtgtaca aaactttacg tgccaaaatt ctgagtgaat ttagctttct 240
ccctcttttt gatgtgttaa tttttgttca tcatgttttg ctgtgatgtt acataggtag 300
atgtgtatgt agttttaatg tcacctataa caaaatgtgt ttggtagcag attgtccaga 360
aagcatttta aatgaagagg tataaacctt taagggccaa aattctgtat attagattac 420
tcttaaacga aaaaccagct gccgctttta tgtacacata ttacatacga gtaggcagca 480
gacttttaaaa ataaaaaaa cctaggcatg ttgatgttgc aaaatgctgt ataaagctga 540
aacctgttca ttcagtgcga ttgtagtga catgaagctc tcgag 585

```

&lt;210&gt; 1483

&lt;211&gt; 418

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1483

```

gaattcggcc aaagaggcct aatttttttt gaggatttgt tttacttggg tgtcacattc 60
ataattttta atcctttaag gagaaaaatg tgcttattaa atttttggtc tctgaatgct 120
accaagtctt agtcatacag aacaatatgc tgcaactgtt tacaattcct aaaactgtaa 180
actcctcaag gacttggagg ctaaacaatga agaataataa attaatgtga caatcactgt 240
ctcctgcata acactgactt cacttctctt gagaaatgtg catctgctaa tccatattta 300
ttacttttta ggggtgggtg aaccataaaa taagatactg ttctttgaat gccttttagct 360
ggtgttattt accagtaatg cttggagaaa gaatccaaaa ttacccccac tactcgag 418

```

&lt;210&gt; 1484

&lt;211&gt; 572

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1484

```

gaattcggcc aaagaggcct aggcttcac tttttgaatg catctctgta ggctttgtga 60
tttagggaag gatctgttaa actttcaagt tcagagaaaa gtttcttaaa cttcccaggg 120
attttctccc aggtctgcga cagtcgactg acagaagcag tggtgagacc catcacaatg 180
gcaaagaaag aattcagggt tctctgggct ttgcagttag ccgcaatttt gatgaatttt 240
ttcaccagct gcactcgctt gccagctgg ctgcagagca gaatctccgt gggcacccaa 300
agctggacct cattgcatct ctggagcaga aggctgagat ttgcagtgtg ttccccactt 360
ccctgtctgc tgaacgtgaa gtagatcagc tcttgctcgt gaattgaatt gaatagactc 420
caatcaaaat tcattaattc cagagcaaga tcccaagtgt tcatcccaa aatcctcacc 480
gacctttgct gtgattcttc attttctgca aatgggttca aagtgtccgc cagggtcttc 540
cggtagacat atattcgacc agatgcctcg ag 572

```

&lt;210&gt; 1485

&lt;211&gt; 451

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1485

```

gaattcggcc aaagaggcct acttcttccg ggcccacgga aaaggcgggc gtagtgctct 60
tgcaccgctc cccaggggcc cccatggagc ccttctgccc ttgggttcca gtgtggcccc 120
tggtccctgc tgagcctgtt ttgccatatt tcccttgag gctctgatct ccggtgtcac 180
ccttctcccc ttccaagata gtgatgttga tctggggcac ggcggtcgcc ggttacatgg 240
aggtaccagg gtcacagcag cgcaagcacc gggaagcagg gagccccctg tcttgactgg 300
gcctgtatth ttcatgttgt tcttcagccc tctcggcatt gtccggaggg gacggcagct 360
cctcagtcce cttccactcc tgctgttccc cctggacatg ggccacgcga ctcaggacca 420
ggccagaggc aaaggcaagg agcagggtcga g 451

```

&lt;210&gt; 1486

&lt;211&gt; 590

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (69)

&lt;400&gt; 1486

```

gaattcggcc aaagaggcct aagcaaatgc aaaaactctt tgagagggtg ggaggggtgg 60
aaggaaacna ccatgtcatt tcagaagtta gtttgtatat attataataa tcttataaatt 120
gttctcagaa tcccttaaca gttgtattta acagaaattg tatattgtaa tttaaaataa 180
ttatataact gtatttgaaa taagaattca gacatctgag gttttatttc atttttcaat 240
agcacatatg gaattttgca aagatttaat ctgccaaggg ccgactaaga gacgttgtaa 300
agtatgtatt attcacattt aatagactta cagggaataa gcctgtgggg ggtaatccct 360

```

```

gctttttgtg tttttttgt ttgtttgttt gtttgttttt ggggggtttt cttgccttgg 420
ttgtctggca aggactttgt acattttgga gtttttatga gaaacttaaa tgttatctgg 480
gcttatatct ggcctctgct ttctccttta attgtaaagt aaaagctata aagcagtatt 540
tttcttgaca aatggcatat gttttccact tctttgcatg cgtcctcgag 590

```

&lt;210&gt; 1487

&lt;211&gt; 596

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1487

```

gaattcggcc aaagaggcct acttttgtct gcctcattct aaaatttaca cagtagacca 60
tttgctcatcc atgctgtccc acaaatagtt ttttgtttac gatttatgac aggtttatgt 120
tacttctatt tgaatttcta tatttcccat gtggttttta tgtttaatat taggggagta 180
gagccagtta acatttaggg agttatctgt ttctatcttg aggtggccaa tatggggatg 240
tggaattttt atacaagtta taagtgtttg gcatagtact tttgggtacat tgtggcttca 300
aaagggccag tgtaaaactg cttccatgtc taagcaaaga aaactgccta catactgggt 360
tgtcctggcg gggataaaaa gggatcattg gttccagtca caggtgtagt aattgtgggt 420
actttaaggt ttggagcact tacaaggctg tggtagaatc ataccccatg gataccacat 480
attaaacat gtatatctgt ggaataactca atgtgtacac ctttgactac agctgcagaa 540
gtgttccttt agacaaagtt gtgacccatt ttactctgga taagggttt ctcgag 596

```

&lt;210&gt; 1488

&lt;211&gt; 503

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1488

```

gaattcggcc aaagaggcct aagcctttct ttctgcagct aagggcagag gctgtgccta 60
gggctatacc accactagca tctgtatttg agactgtttc cttagatggg taagaggtgg 120
aaaacaaact tagtatcagg ggtccatgaa gcccatggca tcatttttga aaatatttct 180
agttttgtag ccaaagcaat tgggttttagt aaaatgagac ttcttcagga gtcactcctt 240
tactgtggac ccattgctta gtgggaatgg aagtatatgt atctatcttg tgtattaact 300
tctgacttat ttatacaaga gcagctatag gagtttaca aagaacttta agttattaag 360
ttactataaa tttggggatc ctgagtgat cttaaatacg gcaagataga gtcatttag 420
aataaaaatct cacatccatt attttaaagg gaatgattgg ggggaaaaac tggggaagaa 480
gaaatataaa aaggaccctc gag 503

```

&lt;210&gt; 1489

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1489

```

gaattcggcc ttcattggcct acaaccccaa atattaagcc aagattaaaa aaccaaacag 60
ataagaatgg catattttta tctaaatgac ttaattttgt tctcttcttt aatgttatgc 120
tgtgggcaca attcaagcaa cttgacagct attttctctc agcataatga agaccttgg 180
ctactcactg ctcaactcca gtgctgctgc tgggaaattg gtagtcgttt atatcactct 240
gtccttctta cagttctagt tccactcgag 270

```

&lt;210&gt; 1490

&lt;211&gt; 352

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1490

```

gaattcggcc aaagaggcct acgcctcccc tccgcaccca cccccctgcg cccaggcttc 60
tcccggacac cgcagcctcc tgccgaagaa ccccgccacc ctcttaccta cagccagctt 120
cctcgggtgg gcctcagccc agacagccca gcaggtgaca ggaatagtgt gggcagtgg 180
ggcagcgtgg gcagcatccg cagtgccggc agcgggcaga gctctgaggg cactaatggc 240

```

catggccctg gcctcctgat tgagaacgcc cagccactgc cctctgctgg agaggaccag 300  
gtgctgccag gactccaccc gccgtccctg gcagacaacc cctccactcg ag 352

<210> 1491  
<211> 287  
<212> DNA  
<213> Homo sapiens

<400> 1491  
gaattcggcc aaagaggcct agaagctctc tgtttgaag tggagacaaa gaccaaatat 60  
agattcttat tgttgcaact ctataattcc ctcaccctta ttttcaccag gcaaaatttc 120  
ttcgtttttt ttatagctca gttcagattt cactttattt gtgaaacctt ctcatctgtc 180  
cgctagttaa aagaggcctt tctttcattc tcatggtttt gtctattgta aagtactatt 240  
attattgggtt tatgtatctt tcttcaaccc actgtgattg tctcgag 287

<210> 1492  
<211> 275  
<212> DNA  
<213> Homo sapiens

<400> 1492  
gaattcgcgg ccgcgtcgac tccctactcc ccaccccgga cccccattca gaaagaagca 60  
ctgttgacac ttcaatgcat attctgaact ccaggctcctt tctttgcata catcaagctc 120  
tcactctctt gccggtcttg tggctctgcaa acccagagag cagatgcttt gctcagcgct 180  
cgtaccacgc cagcacacca catgctctctt ttgtacctgg gtttgaaccc acaggctcggg 240  
cccttgtaag cccttggttc cccaagcttc tcgag 275

<210> 1493  
<211> 393  
<212> DNA  
<213> Homo sapiens

<400> 1493  
gaattcgcgg ccgcgtcgac agctgatcca agttttatgc tgatttttcc aaagatctct 60  
ccctcctttt ccctccataa ctcacaggtg gggaaggggg cggcattagg atggtgttac 120  
tgtattggga ttttatgttg ttctgtcgtc ttcagcacag gtagtataag gttatattac 180  
tgtagaacca cagtgcceat cttgccagca gtgcccggcc ccaccctcaa agctgagcag 240  
gttgagcctt tgcctagtcg gggccagacc cctcagatgg ggatatccct gggggagccc 300  
ggtgctgaac cagaagaggg ttcttggtgc ttctgtccta ggccaccact cctccagccc 360  
tttgcccgca catacatgcc ccacaaactc gag 393

<210> 1494  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 1494  
gaattcgcgg ccgcgtcgac aagatacaat aaaacatact taactgtttt aaaaagtgtg 60  
tcataggagc ttttgaacat acaaatagaa tcatacttca atttcagttt atactgaaca 120  
aaatacagtt tttctttgaa ttggtagtac ttcagaatct gagtgtctta acagtcattg 180  
tgtagtagtaa tttgagtgcc tcttgtagtc tgggtattca agatgctaag gatccatcca 240  
gctttgaaca agacaaggcc cagctcgag 269

<210> 1495  
<211> 309  
<212> DNA  
<213> Homo sapiens

<400> 1495  
gaattcgcgg ccgcgtcgac gagcacttaa cttcagggtc gttgctgagg aagaggctctg 60

```

aaggtaatat tagtaccccc ccaactactt tcagctggaa acaagagttg tttgggccct 120
tactgaagttc ctactttaga gtcaagggtc ggccttcccc tgcattctgc tgcattgtacc 180
tcacaggtga gcagataaca tatttgtgca gctattccct tatgatttcc tctctattag 240
agagaggtgg gagcctatga cagactgcag agtgtttgct ccattcttcc ccaccccata 300
gctctcgag 309

```

&lt;210&gt; 1496

&lt;211&gt; 314

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1496

```

gaattcgcg cgcgctcgac agccatagaa gaaacttgag tatgcctggt caccttcttg 60
gatctgctgt cttaaattata tatatatattt actgcaggaa agtatacttc gtaaggagta 120
gtttttatatt atttgtttat ttgggttctca gtggaaccct gtcaaatccc ataaaagcgg 180
aaaaaaacaa aactcattag agtggttttaa attgaatggt tgcctttttac atatatattgc 240
tcttcagcat gggttcctaatt ttgaatgtta catgtttaga aaaattttca gccagggtgcg 300
gtggctcact cgag 314

```

&lt;210&gt; 1497

&lt;211&gt; 303

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1497

```

gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt ctagacctgc agcctgggtg 60
gcagagcaag tctccatctc acaaaaacaa gcaaaacaaac aaaaaataaa caaaatcaaa 120
aacaggaaca tgaaaactgc ttttgttctc ttgtgttaata gatttacttt attttttttt 180
ctgtttcttc ttcatttttc tatttttctt tctttatcct ttttttggg gggggcagaa 240
tctcactcag tcaccactgc cctgcagcc tgggtggcag agcaagtctc catctcactc 300
gag 303

```

&lt;210&gt; 1498

&lt;211&gt; 380

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (21)..(23)

&lt;400&gt; 1498

```

gaattcgcg cgcgctcgac nnnagtgtgg gggtttttcc ccccaccagg aagtggcagc 60
atccctcctt ctcccctaaa gggactctgc ggaacctttc acacctcttt ctcaggggacg 120
gggcagggtg gtgtgtggta cactgacgtg tccagaagca gcactttgac tgctctggag 180
taggggttga caatttcaag gaatgtttgg atttcctgca tcttgtggat tactccttag 240
ataccgcata gattgcaata taatgctgca tgttcaagat gaacagtagc tcctagtaat 300
cataaaatcc actccttgca cagtttgatc tttactgaaa tatgttgcca aaatttattt 360
ttgttgttgt agctctcgag 380

```

&lt;210&gt; 1499

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1499

```

gaattcgcg cgcgctcgac cttttctagc cttagacaaa tgatcaccat gttagcctta 60
gacgaagaag ctggctagtc ctttctgtga agctaataca atgggtcattt ccagacaaat 120
ttaaaggaaa cactaaggct gcttcaaaga ttatctgatt cctttaaaat atatgtctat 180
atacacagac atgctctttt ttttaagtgt tacattttta tagagatgaa tcagtttttg 240

```

```

aatctaagct gtttgccaag ctgaagctac aggttgtgaa ataattttta accttttgaa 300
tcatactgcc tactgttact ctaaatagaa atatagggtt ttttttaatg tgaatttttg 360
cctatcttta aacatttcaa tgtcagcctt tgtaacctt aaatacactg aattgaatct 420
acaaaagtga accatctcag acctttactg atactacaac ttttgttttc tgatggccaa 480
aatacctaata acctcgag 498

```

<210> 1500

<211> 334

<212> DNA

<213> Homo sapiens

<400> 1500

```

gaattcgcgg ccgcgtcgac tgaagaagtg aaaatgacaa taatgactct caagaggctg 60
gcgatgtgac atggcaaattg tagaactgac ttaaattgaa caaacctca ctgagcacct 120
ctgatgttga gcacctgctg aatactgagc actgaatggg ggagggggag gggagcacgg 180
ggtgagtgcaa cctgggactc ggtctcaggg atatgcctac caatagcggg tatcgtaagg 240
catgtaccca aacataaacg atgtaaggca gaaagtgatc ggagaaggaa tgagaaagtg 300
tgcgtgatgt taatgaaaag tctaacagct cgag 334

```

<210> 1501

<211> 220

<212> DNA

<213> Homo sapiens

<400> 1501

```

gaattcgcgg ccgcgtcgac aattctagc ctctcagcaa ctttaattata aaacaattac 60
ttctaatttc tcacttagtg ttggggaatt ttgcttgga tttctaggg aaagaggaaa 120
agcagaggta gtggtagctt tgaaaatgtg gaaccttatg ctattatgta taacttcact 180
tcaatatggc ttacacagaag acacagtcac ccaactcgag 220

```

<210> 1502

<211> 165

<212> DNA

<213> Homo sapiens

<400> 1502

```

gaattcgcgg ccgcgtcgac gggcaggtat tgaactctta agtacaaaat tattttccca 60
aagaattttta aaatatacta tcccactatc tttttgcac cagcattagt aattatagga 120
ttattgctgg ttgctactct ttctgtctat cctcagtgtc tcgag 165

```

<210> 1503

<211> 614

<212> DNA

<213> Homo sapiens

<400> 1503

```

gaattcgcgg ccgcgtcgat gtacatatatc ataagcatgc acacagacag acataaaaaat 60
gataggatca tataagacat tgtatagact gttttatgat agggtaatac acttttcttt 120
tctttttctt ctttgtccag ctcttctgtt ctttatccat atcatactct atccctactc 180
aaggaaacct agcaacatgt ttatagtctc atatgtctca ttatgctcat atgtcattta 240
catggtatct tatatacagg gtttacacat ttatagtaaa cgatctttat atagtttata 300
caatatctgt ttttcttttc tctgcaatac aaacgtgttt catatccctc aaacacacc 360
acaccctca cttacacatg tgttatcact gtttgctttt gtaaacctgt gttcaacgta 420
tacacattaa tcatttaagc ataccttggt gaaatcctgc caacttgact actgtgcctc 480
caatttcttc ctttttatcc catcataata aacctggcaa taattgatc aaccatatgc 540
acattgatat cacttatgct gtttgtttat ttttactact acaaactgc tacaacaaag 600
ttccgggact cgag 614

```

<210> 1504

<211> 329

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1504

```

gaattcgcgg cgcgctcgac aggtaagtca ttaatttca cttttcaggt ttgttttggg 60
atttgtcttg gggcagattg ttaaggcctg ttttagaatc agctaccctt gcattgtaaa 120
tggttgcttc aagagcacca gatcgtgggc tcttggtccc cggcaaggca gagctgatga 180
gagaagggtcc ttgcccgcag cactgcaggc aggatgggat agtttggtgg tttcttgctg 240
tgtgtgtttc tctgtgctgg gtgagggaga cagctgggag ttggccttta tccagtgcc 300
gagagagctg tggaagggat gagctcgag                                     329

```

&lt;210&gt; 1505

&lt;211&gt; 306

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (23)

&lt;400&gt; 1505

```

gaattcgcgg cgcgctcgac agngaaatct gcctcctcca tgtctcaagc cacgtggaat 60
aaattgtgga aagacctgtg ctgtctggct tgtgccttta cacatgctgt tatctctacc 120
tcaaagtctg tcttccccca ctggctaacc cttgttatcc tttataacag ctcagaagtt 180
gcctgctcaa agacactttc ttggcctgaa ttagaactgc cctctcacgt gctacttcca 240
tcacagatct taccatctat tatattatta catacacaca cacacacaca cacacacaca 300
ctcgag                                           306

```

&lt;210&gt; 1506

&lt;211&gt; 353

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1506

```

gaattcgcgg cgcgctcgac ctttttttca cacagggtgat agaaatcctt ctaactcctt 60
gattctttca ctttatctta ctggtctcta catgtcagaa cacagaagtt gtgttttggt 120
tcgttttggt ttacagagct gtggttaagta ttggatgggc cattgtttgg atgttttcga 180
tgttctgtcc tttcttagat ctattcgggg gcatttgggt tgtctccaat ttgttggttac 240
ttcaaacaat ggtatactca atacagtgtg ttagggtagg gatttttaca gaagaaacta 300
aacagccggt agaaaattat ttttttacat taactcaacc agttattctc gag          353

```

&lt;210&gt; 1507

&lt;211&gt; 331

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1507

```

gaattcgcgg cgcgctcgac ggaaaaatgaa gctcttaaag atatgctgta aaacagccac 60
agagttcaca acaccttata tcataggtgt tcatgactcc taaaagtctg taagcccaag 120
aagacaagac catatctttt tcttagttaa tcatgatgga agtattgtgc agatttttaa 180
actagcttta ttgtggttta attgacatac aataagttgt atatatgtga agtatatagc 240
ttgataagtt ttgatattgt tataccaata aactcatgac gacaatcaga taatgaacat 300
atccaagacc ctcgagttaa gttgactcga g                                     331

```

&lt;210&gt; 1508

&lt;211&gt; 229

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1508

```

gaattcgcgg ccgcgtcgac gaggtccccc ttttttctaa atttctctgt gtgcttttct 60
ccccctgcta ctttttccat ccgttctctt tcactcttgc tctctttgca agtccctaaa 120
gtatcatcca ttttgccgtg ttttatggg tctccctcat tcttttctcc tcagttttcc 180
cttttctctg ctgtcttggg gagcttctgc atgtgaccca attctcgag 229

```

<210> 1509

<211> 551

<212> DNA

<213> Homo sapiens

<400> 1509

```

gaattcgcgg ccgcgtcgac ccaacagatg agtctttttg gtactagata gggaagagtg 60
aatgtccctgt gttgatatag aattgtttta gttatctgtc cctgtcttaa tttctctgca 120
tatttagtgt aattatcttc ttgatctatg ttgtcttagg atgcaagggg gaatttgagc 180
atccttccctg caatctttcc ctccatcag agtctcagaa tccactcttc tatttccatt 240
tgactaaatc ataggcatct aagaggggagc cactccgcc ccctactaac tagcagaata 300
agactgacca gtttccaact aatcaattac ttgagttacc atgtccggca gatttctact 360
ttgctgtatc tctcaactct gttgccttgt tcatttccag caccactctg ccagtccagg 420
ctttgatccg cacatagctg gactaactgc tcatctacct aatgtggctc attctccata 480
gcactatcag attaattttc ctaatgtggc acttgacccc tactacttcc tgcttaaagc 540
acaacctcga g 551

```

<210> 1510

<211> 273

<212> DNA

<213> Homo sapiens

<400> 1510

```

gaattcgcgg ccgcgtcgac gcttttttaa aaaatttcag aactgtgtac tgtgatgaaa 60
ctgtgacga atcctcagga attaatgtgc atcaaccac tgcttttgct cacaagttac 120
ttcagctctc tggagtgtct ctcttctggg atgagtttcc tgcacagcc aaatcttccc 180
cagtgtgttc aactgcacca gtggaaactg agccaaagct ctcacctagc tggaacccca 240
aaattattta tgagccacac cccacagctc gag 273

```

<210> 1511

<211> 291

<212> DNA

<213> Homo sapiens

<400> 1511

```

gaattcgcgg ccgcgtcgac aattatcata ttttccataa agagagcatt gatttcatcc 60
attggcatat tgagatgctt tcctgtttga cattggtcac agaattttaa aggaaaaaca 120
acattactgc acattcagga atcagaaata gaagtaaagg tcaggatctt aaagggaaac 180
ttgacaggat atcaggcctg ccttttaaaaa aattcagaca tgataagttt actaccaatc 240
attttttcaa taacaacaat aatatattta ttttttccca tggaactcga g 291

```

<210> 1512

<211> 229

<212> DNA

<213> Homo sapiens

<400> 1512

```

gaattcgcgg ccgcgtcgac cgcgttttcag cgaagtcgca cgtgaaggat agcagtggcc 60
tgagaaaagac ccagtcatgg cagcctccag catcagttca ccatggggaa agcatgtgtt 120
caaagccatt ctgatggctc tagtggccct taccctcctc cactcagcat tggcccagtc 180
ccgtcgagac tttgcaccac caggccaaca gaagagagaa accctcgag 229

```

<210> 1513

<211> 104

<212> DNA

<213> Homo sapiens

<400> 1513

gaattcgcgg ccgcgtcgac ccgccaccga aaatctgttc tgacatgaga atgttcacaa 60  
aagacagcac ttctcgactt ctgctgataa gcttgggtct cgag 104

<210> 1514

<211> 357

<212> DNA

<213> Homo sapiens

<400> 1514

gaattcgcgg ccgcgtcgac aaattttatt gttgttttaa aaacctgtgt tttttatatg 60  
aggtttaaaa aatccatatt ttctattact cctcttctag gttctgagtc ttctggtagt 120  
gtagggtcat ctacaggctc tctttctcac atccagcagc ctcttccagg tacagctctc 180  
agccagtctt ctcatggcgc acctgtcgtc tatccaactg tcagcactca tagttctctt 240  
tcctttgatg gtggcctaaa tgggcaagtc gcattctcta gactagctt ctttttgctt 300  
cccttggaag cggcaggcat accacctggc agtattctga tcaacccact tctcgag 357

<210> 1515

<211> 237

<212> DNA

<213> Homo sapiens

<400> 1515

gaattcgcgg ccgcgtcgac ggtatttggc tactgtatta acttcgacca tcccaataga 60  
aacgtgccaa taaatcattg atgatcttta attgtgcct gtacggtgca ataatacaca 120  
tatcagaggg actgcatcca gccttaacaa aaatggaggt taggaaaact atgagtttgg 180  
cttctgttac attgtctacc accacctttt tcaacttggt ctggcgtggt actcgag 237

<210> 1516

<211> 543

<212> DNA

<213> Homo sapiens

<400> 1516

gaattcgcgg ccgcgtcgac cgaggacaga agatagaaac aagagtttga ggtttggtt 60  
tgattagaaa cttgggtggc tcaaaagaaa cttaccagaa gcacagtagc tgtaggtttg 120  
gggtcccaaa agggtagcct gagcttttta gggctaaaac tgggaaagaa acacctaaac 180  
tgtgttttaa actaaattta tgactgagtc tctgcatagt ggtgatttat agtatgtgct 240  
ttcagattcg cctacttta atcatgaaag cttcattcta tagaccacca cctgtgtgat 300  
gtccttggtc tcaaaagacga tttaaacttg gactgttttt ccagtaaaa gagatttgct 360  
ttcagaatgt cgagtgtatt cataacggat ggttcttcat tacttacaaa tttttgtaat 420  
taatcttctg atgaaacaaa aagctatgat gttgctgtta atgtgtattt gatagatatt 480  
ggttgacaaa tgcaggctaa atgggatgtg gcaatacttt ggggccagat atagaggctc 540  
gag 543

<210> 1517

<211> 431

<212> DNA

<213> Homo sapiens

<400> 1517

gaattcgcgg ccgcgtcgac caactgcag gctccatttt ttcaggccat ccatcaacca 60  
tggggtcctg gattcctctt tctcttacat cccatgttct attcattagc aactcttgtc 120  
agtatagtct tgaaaataag ttggattatc tctaactacc tgttactgct cttgactttg 180  
gacaatatgt tatcaaccag tgaccatttg aaagtataca aattatttga cttacttgag 240  
caaaatcttc ccgtggcttc tcctctcacc cggaatccag cttgaagaat aaccactacc 300  
tacatggccc tgcgcgtcgc ggctccggac gccatcttgg cctcagctcc caaagcacct 360  
tcccctctca ccgtgtccta gctgcgcgct gtgtctctcc ttactcctac gggatacccc 420

acccccctcga g

431

<210> 1518

<211> 361

<212> DNA

<213> Homo sapiens

<400> 1518

gaattcgcgg ccgcgtcgac gggaggtcaa agctgcagta agtcaagatt gcaacgctgc 60  
actccagcct ggggtgacaga gtgagaccct gtctcgaaaa agaaacatac ataaggaata 120  
tattgtctca gatattctaaa gaatccagga gtacacctgg tgttgccac tgggtgatgt 180  
ggtgtggaaa caatctttct ccattctctta ggtctactgt tttctgtgtc tctccattt 240  
taagatagac ttttctaagt aaaagtttac tgtttccagt ggaagggaagt tgcctctttc 300  
caaacagtac caataaaagt tccaaggctg actcatgggt ccaactatag cagtgtctga 360  
g 361

<210> 1519

<211> 274

<212> DNA

<213> Homo sapiens

<400> 1519

gaattctgga gtcaaataca ccaagtcgga cttgcggtta atcgaagtca ctgagaccat 60  
ttgcaagagg ctccctggatt atagcctgca caaggagagg accggcagca atcgatttgc 120  
caagggcatg tcagagacct ttgagacatt acacaacctg gtacacaaag gggccaaggt 180  
ggtgatggac atccccctatg agctgtggaa cgagacttct gcagagggtg ctgacctcaa 240  
gaagcagtgat gatgtgctgg cgacgagtct cgag 274

<210> 1520

<211> 687

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (21)

<400> 1520

gaattcgcgg ccgcgtcgac ntacgcatgg gcactctgag ttcataaggaa gatagttaaa 60  
aagaaaatga gtataggatt tgaactaaaa ataacatggg acttgaagat tgacttgcaa 120  
agtccagttc attattttga cagatgcatt tcaagtagag ttgccagaca aaatataagga 180  
ttttgagtta gattagaatt tcagataaac agcaaataat tgttttaata taagtatgtc 240  
cgccaaactg tagatatact gaaagctatt gctgtttatt gaatcaaaat ttaattgggg 300  
gtctgttaatt cagtttgcca aatctggctc ccctagtctc acacaagtta atttcttgca 360  
cattgtgata taggaggctg gataccatag atacggtaga gttgtacatt atccaggctg 420  
cctgagtcct aaaccagtat ccattcctaa ggtcttatga ttaggataaa agatttttcta 480  
cttcagcaca aagtgccttt tgaataattg tgatgattat ttctggaaat ctgtcccatc 540  
ttagcattgc tagagttggg ttatcatgag acataactca agagaaatta gctatactga 600  
gatcatttta tcaaagggtac tcgtgacata ggcaatttga tatgtcccaa gtctgcctcc 660  
aatgtcaggt gagttcccaa actcgag 687

<210> 1521

<211> 132

<212> DNA

<213> Homo sapiens

<400> 1521

gaattcgcgg ccgcgtcgac gagattgtgc ccctcttttc attctctccc aatagatctc 60  
atgtctaaca ctacttaac tttgtccccc tctgagacca gcatgaactc cagtcttttc 120  
tggcctctcg ag 132

&lt;210&gt; 1522

&lt;211&gt; 324

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1522

```

gaattcgcgg ccgcgtcgac gtgatcttca gttttcactt gcacctttga atattctgcc 60
atgttttgaat tccttagaat gatcaagcat cttttttgtt gttgggggtt ggttttttgt 120
ttggttttgt tttgtttgag acagagtttt accctgtcac atgggctgga gtgcagtggc 180
atgggtcatgg ctcaactgcaa ccttgaccat ctgggctcta gtgatcctca gcctccccga 240
gtagctgaga tcacaagtgc taattttgga aaaattgttt gtagagacag ggtcttacta 300
tgttataagc ccaggcctct cgag 324

```

&lt;210&gt; 1523

&lt;211&gt; 373

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1523

```

gaattcgcgg ccgaggcaag aagttcccgt gtatacagat tctgaaccca ggcaagaagt 60
tcccatgtgt tcagaccctg aaccaggga agaagttccc acatgtacag gccctgaatc 120
caggcaagaa gttcccgtgt atacaggccc tgaatccagg caagaagttt taatacggac 180
agaccctgaa tctaggcaag aaattatgtg tacaggccat gaatccaaac aggaagtccc 240
catatgtaca gatcctatat ccaagcaaga agactccatg tgtacacacg ctgaaatcaa 300
tcaaaaatta cctgtagcaa cagattttga atttaagcta gaagctctca tgtgtacaaa 360
ccctgaactc gag 373

```

&lt;210&gt; 1524

&lt;211&gt; 242

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1524

```

gaattcgcgg ccgcgtcgac tcgagattta ctggcaactg ttcttttccc atcaaaaatc 60
agtgaatgtt tgctgagtat aaatgctgct tccttaaacc acttgctgct ttaggatcaa 120
ctttacctgt accttttctc ctttctctcc ttgccacctc aggtgcaaat ctgaactcag 180
tgtctgcttc ttccattttc tcgtctctct cccctcttcc cccatcccgc gtttgctctg 240
ag 242

```

&lt;210&gt; 1525

&lt;211&gt; 527

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1525

```

gaattcgcgg ccgcgtcgac cttgaattct aaaagccaga gctggaaata accgaaaagt 60
cttaagggaag tgtgctgctg tggctgccaa taaaataaag ctaatgagtg atgtagaaga 120
gaattctagc tctgaaagtg tctgttctgg tcggaagctg cctcaccgca atgcttctgc 180
tgtagctaga aaaaagtatt tacataattc tggaagatga acagagctta aagtcagaaa 240
ttgaagaaga ggagctaaaa gatgaaaatc aaccattacc agtgtccagt tctcacactg 300
cccagagcaa tgttgatgaa tctgaaaaca gagactcaga gtcagaaagt gatttgctgg 360
tagcccgga aaattggcat gctaattggtt acaagtccta tactccagca cttcaaaga 420
caaaatttct taaaatagag tcttctgagg aagactctaa aagtcatgat tcagatcatg 480
catgtaacag aactgctggc ccatcaactg ctgtgcagag cctcgag 527

```

&lt;210&gt; 1526

&lt;211&gt; 388

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1526

```

gaattcgcgg ccgcgtcgac ttcacatcgc tactgttatt atgctatttg ttagcaccat 60
tgccaatgtc tgggttggtt ccaatacggg agatgcatca gtaggtcttt ggaaaaactg 120
taccaacatt agctgcagtg acagcctgtc atatgccagt gaagatgccc tcaagacagt 180
gcaggccttc atgattctct ctatcatctt ctgtgtcatt gccctcctgg tcttcgtgtt 240
ccagctcttc accatggaga agggaaaccg gttcttcttc tcagggggcca ccacactggg 300
gtgctggctg tgcattcttg tgggggtgtc catctacact agtcattatg cgaatcgtga 360
tggaacgcag tatcaccacc tgctcgag 388

```

&lt;210&gt; 1527

&lt;211&gt; 161

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1527

```

gaattcgcgg ccgcgtcgac gagctagggg acgggtgcag gcaggaaaca gaaacaacac 60
agctacacat tcttgagata actctgggtc ttatactgaa actaaccaac taagaaaatt 120
attcaatgca ttatacatcc ttaatcccca caacactcga g 161

```

&lt;210&gt; 1528

&lt;211&gt; 294

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1528

```

gaattcgcgg ccgcgtcgac atcctaagca catacgcata tttaaactgg caccaagctg 60
ttaattatgt taatgccttt atggcacaaa aatgtaaaa ttactattaa cttgggggct 120
gacctaaaga gctggcaaat ctccctatc ctccctatc tggctatctt gctgggcttg 180
caatgccagg gcctacttag aatagccaca gccacacatg agcatcatgg gagacttctg 240
ggggcaactt cagcttcttc ctctaaaatg attcccgaact cccagatcct cgag 294

```

&lt;210&gt; 1529

&lt;211&gt; 452

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (424)..(427)

&lt;400&gt; 1529

```

gaattcgcgg ccgcgtcgac agatgtcaga ggatttagca aagcagctgg caagctacaa 60
agctcagctc cagcaagttg aagctgcatt atctggaaat ggagaaaatg aagatttgct 120
aaaattgaag aaagatttac aagaagttat agaactaacc aaagaccttc tgtcaactca 180
accttctgag acgcttgcaa gtccagacag ttttgcttct actcaacctc ctcattcatg 240
gaaagtagga gacaagtgtg tggcagctcg gagtgaagat ggacagtgtt atgaagcgga 300
gattgaggag atagatgaag aaaatggcac cgctgcaatc acctttgctg gttatggcaa 360
tgctgaagtg actccactgt tgaacctcaa gcctgtagaa gaaggaagga aggcaaagga 420
ggannntgg caacaaaccc atgaacctcg ag 452

```

&lt;210&gt; 1530

&lt;211&gt; 369

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1530

```

gaattcgcgg ccgcgtcgac ctgaagtaac caacaactag gtctttgtta gctaagcagt 60
gtataagtta ttaacaaaac tcaaaaacag ttaactgtgg ttggaaatat tcattctaaa 120
aatcaattta tgaataaaa aaactcacca aaaaaatcat caagtaagta gaggagacat 180
aattggctga aaataaacta ggagagaaaa aaccctctaa accccctctaa aactccaaat 240

```

```
cctctttttt tgattgttca tttttattgc tttgtttatt ctttcatggt tcaaattcct 300
ttagtatttt ttttaattgc aaaagcaatg agtgaggctt tcgggaaaag cagaaacgtt 360
gggctcgag                                     369
```

<210> 1531  
 <211> 211  
 <212> DNA  
 <213> Homo sapiens

```
<400> 1531
gaattcgcg cgcgctcgac ctcgagagtt tcctttgaga acattatact attggctcta 60
gtctccaaac caataaaaaa ctaaaacttg tttccaagac tgggaggtta agtaggctta 120
taaaacaata cagcaaaaaga aagccaagtg gcctaattgt ttccagtgtg cttgccatct 180
tagcatgggt actttccaga tgtcactcga g                                     211
```

<210> 1532  
 <211> 211  
 <212> DNA  
 <213> Homo sapiens

```
<400> 1532
gaattcgcg cgcgctcgac gtcgattgaa ttctagacct gccacatcaa tctcacgggt 60
gattacaaga tttccagaag ccttgaacaa ttcaatttca accatgcctc tagaacatcc 120
tctcttcaca aaaaacccaa ccttatctgc tcgtcccatg aaagcagggt ttccagctaa 180
accaaggcaa atggcacaca caaaactcga g                                     211
```

<210> 1533  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

```
<400> 1533
gaattcgcg cgcgctcgac caaggagact aagatgcaga aacccactt acctttatct 60
caggaaaagt ctgcaattaa aaaagctagc aaccttcaga aaaataaaac cgctagctcc 120
acgacaaaag agaaggagac aaaactacct ttactttccc gtgttccaag tgctgggtcc 180
tctctagtag cattaaatgc taaaaattgt gctcttccag tttctaaaaa agataaagag 240
cgttctcat ctaagaatg ttctgggcat tctacagaat ccaccaaaaca caaggaacac 300
aaagcaaaga ctaataaggc cgatttctaat gtatcttcag ggaaaatttc tgggggacct 360
ttgcgctcag aatatggcac tcctacaaag tctccccctg ctgctttgga agttgtgcca 420
tgtatcccaa gccatgcagc actcgag                                     447
```

<210> 1534  
 <211> 150  
 <212> DNA  
 <213> Homo sapiens

```
<400> 1534
gaattcgcg cgcgctcgac gtgggaaagg agggaaagaa ggaagatttt ctgatgaagc 60
catgccttag aggtaatgac aactaggagt tagtcagatt agtgcttggg tgaggcctaa 120
gaaggcactt atgaagctga gaagctcgag                                     150
```

<210> 1535  
 <211> 253  
 <212> DNA  
 <213> Homo sapiens

```
<400> 1535
gaattcgcg cgcgctcgac ctttagagac caatttgctt gaattttaaa atcttcttac 60
acacatctag actttcaagt ttgcaaatca gtttttagca agaaaacatt tttgctatac 120
aaacattttg ctaagtctgc ccaaagcccc cccaatgcat tccttcaaca aaatacaatc 180
```

tctgtacttt aaagttatrt tagtcatgaa attttatatg cagagagaaa aagttaccga 240  
gacagaactc gag 253

<210> 1536

<211> 273

<212> DNA

<213> Homo sapiens

<400> 1536

gaattcgcgg ccgcgctcgac gcaacatggc gtccaggtct aagcggcgtg ccgtggaaaag 60  
tggggttccg cagccgcggc atccccagc ccagcgcgac gaggaagagg aaaaagaagt 120  
cgaaaatgag gatgaagacg atgatgacag tgacaaggaa aaggatgaag aggacgaggt 180  
cattgacgag gaagtgaata ttgaatttga agcttatctc ctatcagata atgattatga 240  
cggaattaag aaattactgc agcagccctc gag 273

<210> 1537

<211> 347

<212> DNA

<213> Homo sapiens

<400> 1537

gaattcgcgg ccgcgctcgac cctaaaccag cgaacaccag tgcactcacc attcgctctc 60  
caactactgt cctctttact agtagtccca tcaaaactgc tgttgtaccg gcttcacaca 120  
tgagttctct aaatgtggtg aaaatgacaa caatatccct cacacccagc aacagtaaca 180  
cccctcttaa acattctgcc tcagtcagca gtgctacagg aacaacagaa gaatcaagga 240  
gtgttccaca gatcaagaat ggttctgtcg tgcgcttca gtctcctggg tccaggagca 300  
gcagtcgggg gggaacatct gctgtggaag tcaaagtga tctcgag 347

<210> 1538

<211> 287

<212> DNA

<213> Homo sapiens

<400> 1538

gaattcgcgg ccgcgctcgac ctggctgatg gagcacgaag acgaccccg tctggacgag 60  
cctttagaga ctccccttgg acatatcctg ggacgggagc ccacttcctc agagcaaggc 120  
ggccttgaag gatctgggtc tctgcccga gaagcaaacc cgctttgagt gaagaggaaa 180  
gacaggaaca aactaagagg atgttgagc tgggtggcca gaagcagcgg gagcgtgaag 240  
aaagagaggt acgggaggca ttggaacgtg aacagcaaca tctcgag 287

<210> 1539

<211> 298

<212> DNA

<213> Homo sapiens

<400> 1539

gaattcgcgg ccgcgctcgac cgttgaaatc agcattcaga gcaacttcca gccagggaatg 60  
aaattggaag tggctaataa gaacaacccg gacacgtact ggggtggccac gatcattacc 120  
acgtgcgggc agctgctgct tctgcgtac tgcggttacg gggaggaccg cagggccgac 180  
ttctgggtgt acgtagtcac cgcggtattg caccgcgtgg ggtggtgcac acagaacaac 240  
aaggtgttga tgccgccgga cgcaatcaaa gagaagtaca cagactggac aactcgag 298

<210> 1540

<211> 425

<212> DNA

<213> Homo sapiens

<400> 1540

gaattcgcgg ccgcgctcgac ggagagagca cttgcagggg aactccatt tataaaacca 60  
tcagatctca tgagacttat tcaataccat gagaacagca tgggggaact gcctccatga 120

```

ttcaattatc tccacctggc cccacccttg acacatggga attgtaacaa ttcaagatga 180
gatttgggtg gggacagagc caaaccatat aattcttccc tggccctccc aaatctcaag 240
tcctcacatt tcaaaagcaa tcatgccttc cccaaagtcc cccaaactct tatttcagca 300
ttaactcaaa attccatagt ccaaagtctc atctgagaca aggcaagtcc cttccaccta 360
tgagcctgta aaatcaaaag caagtgaagt attttctaga tacacaggga tacaagcatc 420
tcgag 425

```

&lt;210&gt; 1541

&lt;211&gt; 347

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1541

```

gaattcgcg cgcgctcgac ttatacttct gctacctgtg gtctttgtct ctttaccctg 60
aagacctctt tgcttggtcc acttaggtcc tgccctccaa ctctcctgcc ggtgtcagcg 120
gtgaccttta ttcattgggtc cagtggacaa cctaagtctg tctttctgca ttctacaact 180
tcatttggca gtgttgactt ttcccactc tttgaaacac tcaactgctg tttccttggc 240
aggatgttct tctttccctc cccccacccc ttttctttgc ctttcccttc actgtctgtt 300
tcgttttttt tcttctaccc agcactgaaa cctgggtgtt cctcgag 347

```

&lt;210&gt; 1542

&lt;211&gt; 282

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1542

```

gaattcgcg cgcgctcgac cggaagaaag tgcattggtg cagcttgctt gaaaataaca 60
ttgctttgct tgttctacta ctctacatta ggggagaatt tcgatcgcca ggcagcctt 120
cggcggtctc taatttacac agacactctg gtaagacgac cgaagaaagt caaaaggaga 180
aagactatta caggagtccc tgacaacata cagaaggagc tagcatcagg cactggccaa 240
gatgatgctg atggccactc agtgtacacc cctgatctcg ag 282

```

&lt;210&gt; 1543

&lt;211&gt; 292

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1543

```

gaattcgcg cgcgctcgac agcgttcctt ttgctgcctc caccaccgtc actgttctct 60
ttccaaggag aacatcagtc ccattggatt gttttcttca ctagttagatt cccagggtt 120
ggagcacaga aggcacccaa taaaagtcac ctgaatgagc caattccttc tcccattttc 180
catgtggcta tttaaagcaa ctgtctactt tctcccacac ttcaacctcc cccacctctc 240
agatgcctcc tacctcagag gagaaaataa atgctactct cttcaactcg ag 292

```

&lt;210&gt; 1544

&lt;211&gt; 218

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1544

```

gaattcgcg cgcgctcgac gtcaggggaa ctaaaaaaga aaaaaacagt cttgcttgca 60
gcagggtgtc catgactac tttcttcaat ctttttgtgc catagtggga atctggacct 120
ttgagtgttg cacatgctgt gtagcacaca ttgggcagga tctctatggg ttccttgaac 180
atgacctga atgtgttagc tgtcccatca cactcgag 218

```

&lt;210&gt; 1545

&lt;211&gt; 452

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1545

gaattcgcgg ccgcgctcgac actgaggagg tttgaggcgc gcgctctggg caggaagcct 60  
 cccagcgttt ctgaggatga tatctggcta aaaagcgagg gagacaacta tagtgccacc 120  
 ctccctggagc ctgctgccag ctctcttttc ccagatcaca aaaacatgga aattgagggtg 180  
 tctgttgagc aatgtaaaaag tgttcctgga atcacctcta cccacatcc catggaccat 240  
 ccctccgctt tctattcacc ccgcataat ggcctcctta ctgatcacca cgaatccctg 300  
 gataatgatg ttgccagaga gatccgctat ctgatgagg tgctagaggc caactgctgt 360  
 gattctgctg tggatggaac gtacaatgga acatcctccc cagagcctgg tgcagtgggt 420  
 ctgggtggcg gcctaagccc ccctgtctcg ag 452

&lt;210&gt; 1546

&lt;211&gt; 449

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1546

gaaattcgcg gccgcgctga ctttgatttt gggttgacgg cttctggagc ctctcagaga 60  
 tggatggggc caaatactgc acccaggctt ccccatcaga atcagcacag acgcacctgc 120  
 atctaccatg tagtcttcca cagtatcctc tgggtgggatg ctgggtggct gccaaatttt 180  
 cactaaagcc aaccatgcgg agaagcacc cgggtctgtg cctccctgtg ggtatagtcg 240  
 gtgtttatcc agaactagaa gatacaatag caagggaaga tacaatagca agcattgctg 300  
 aatgctacag tgtaacactc tgaggctttt tgtgaatgaa ttcatttagt ccttgtaaac 360  
 ctctgggggt agctcaccat tctgtctcca ttccacagat ggagaatgag gcacagagaa 420  
 gttaagtaac ttgcccaact tcaactcgag 449

&lt;210&gt; 1547

&lt;211&gt; 175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1547

gaattcgcgg ccgcgctcgac ctgtggatca tttagctgca gtccctcttc ctacaacctt 60  
 gattagatca tataagttcc agaagggcat gccaccacga attcttctta atactgatgt 120  
 agcccctttc atcagtgact ttactgcttt tcagaatgta gtccctgggtc tcgag 175

&lt;210&gt; 1548

&lt;211&gt; 211

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1548

gaattcggcc aaagaggcct agtaaggaaa aaaatctggg ctgttagagt gaaaaagtgt 60  
 gttttatgtc aattgtgaaa ggaaaatgtt aggagtatgg tttttaaact tgggcttcat 120  
 tttaaaattt ttttttttaa acccagttat ttcacttgat ttgctagctt cagagaagag 180  
 atccgaatct gtgcccagcg ctgggctcga g 211

&lt;210&gt; 1549

&lt;211&gt; 240

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1549

gaattcggcc aaagaggcct agtgcaggta ctgttttagg tagagtgtac aaagaaacca 60  
 caagtaatcc tgatgggttt acacttaaag aaaacctggt gggtatgcag agaacaggat 120  
 aaaaattata aaataagaga ttggaatatg aagtattttg ccttaattatt tttcaatttc 180  
 agcctctctc tctctcagtg tctctctctc atgtctttct ctcaagcagg ccaactcgag 240

&lt;210&gt; 1550

&lt;211&gt; 210

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1550  
 gaattcggcc aaagaggcct acgattgaat tctagacctg cctcccgccct cattgcctgc 60  
 cctttcccct ctcagtgcgc ttctgcaaca ctagagtctt ttgtgcaccc tatatacatg 120  
 agacactttc ttgccttgag gcctttatgc atggtgtttt tctgttcctg gtatgctttc 180  
 ctcccttcct tttgtctggc taagctcgag 210

<210> 1551  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

<400> 1551  
 gaattcggcc aaagaggcct aagattgaat tctagacctg cctggccttg tatgttttaa 60  
 gagttttaca attttatctc ttatgcataa atctgtgac ctttgaagt taatttttgt 120  
 tttgttttgt tttgttttgt tgggtttttt tttggagatg gagtctcact ctgttcccca 180  
 ggctggagta cagtgtacag tggcacgac tcagctgacc acaacctctg cccccatct 240  
 cgag 244

<210> 1552  
 <211> 254  
 <212> DNA  
 <213> Homo sapiens

<400> 1552  
 gaattcggcc aaagaggcct agggagtggt actaaggatc aagtatactg ttaaaagaaa 60  
 acaaaaaccc aagcatgagg aaggcgggtg ccacgtctat gtgggcttcg tgctgtgggc 120  
 tgctgaatga agtcattgga actggagctg tcaggggcca gcagtcagca tttgcaggag 180  
 ccaccggtcc attcagattt acaccaaacc ctgagttttc cactaccca ccagcagcta 240  
 cagaagagct cgag 254

<210> 1553  
 <211> 186  
 <212> DNA  
 <213> Homo sapiens

<400> 1553  
 gaattcggcc aaagaggcct cccgacaaga gcaaaactca gtctcaaaaa aaaaaaaaaa 60  
 aaaaaagaaa tagaacatct catccacatg tccatatcca ctaactggat ctttgttttg 120  
 ataatcctct tccctttctc tgcagggtta ctcccagtat atccatttct acctgagcca 180  
 ctcgag 186

<210> 1554  
 <211> 239  
 <212> DNA  
 <213> Homo sapiens

<400> 1554  
 gaattcggcc aaagaggcct aaacagatgt taaaatattc agtgaaagt ttattggaaa 60  
 aaggaattga gatataaat tgagatttgg tgaaattgaa ggagaaaatt taagtgcagtc 120  
 tttaaaatat attctgaatg aaaactgtat tgaggattca tttttgttcc ttttttttct 180  
 tttctctttt tctccttttt cttcttttta atagtctagt tttaggcagc cacctcgag 239

<210> 1555  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 1555  
 gaattcgcgg ccgcgtcgac ccagatgaga ctgtggctgc agccagtgc ttgctggtaa 60  
 cttgtgagag atgctgagcc acaggaccta gctaagtggc atccatattt cagatccatg 120

gtaactgtaa gttagtaaac tttgttgttt taagccacta aggtttgggg taatttgta 180  
 tgaagcaata aataactcat atgccaacta tgtgccaggc actattcttg gctctgggga 240  
 caactcgag 249

<210> 1556  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<400> 1556  
 gaattcggcc aaagaggcct aaatttatat caggctctttt tttccccctc taattctgag 60  
 tttttgctag gatagatctt tcacctctta gaaaatcact ctatctgac tttaaatccg 120  
 tgagttggaa tgagaaatat tccacttgct aaaattttct tcagcttttt aactttttac 180  
 aatctcaaca ggtcaaaggc agatctcgag 210

<210> 1557  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<400> 1557  
 gaattcggcc aaagaggcct actatatctc atacaattag atttgttctt gcctcaagac 60  
 ttcagtctga ttggatgttg atgctgtatt ttgcacatac tcatttgact gtgacagtca 120  
 ccattggggtt gcttttgatt ccaaagtttt cacattcaag caataacca cgagatgata 180  
 ttgctacaga agcatatgag gatgagctag acatgggccc atctggatcc tacctgaaca 240  
 gcagtatcaa ttcagcctgg agtgagcaca gcttggatcc agaggacatt cgggacgagc 300  
 tgaaaaaact ctatgcccaa ctggaaatat ataaaagaaa gaagatgac acaacaacg 360  
 ccctcgag 368

<210> 1558  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (19)..(23)

<400> 1558  
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 tagcacagtg agggccaggg gctttgaact tcctcctaga tttcagttct gaagccttca 120  
 cttactggct gagagacttg ggcaaattat ttaaccttcc tgtgagtatt ctcacgata 180  
 aaatgggagt actgacagta ctgtatctcc tcagaggatt gttgcaaaga ttagcttcag 240  
 taatgtgcac agagtactta ggacaatacg aagtgtgcag taatacattg ccattaaaaa 300  
 gagatctcgg gtgtccgcgg gttgccgaat ggagctgagc atcttgatgg aaccagggat 360  
 ctcagggtga agactgaagc cctaggctat ggcggaagtt ggtgcctga agtacaagt 420  
 gaaatatgcc aactgaacct taaaccgtcg attgaattct agacctgcct cgag 474

<210> 1559  
 <211> 128  
 <212> DNA  
 <213> Homo sapiens

<400> 1559  
 gaattcggcc aaagaggcct aattgaatgt taccagaggc tttttctcca cctatggaga 60  
 taatcacatt ttttgttctt cattctgttg atttatcatg tttattgttt tgtgtatgtt 120  
 ccctcgag 128

<210> 1560  
 <211> 250

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1560

```

gaattcggcc aaagaggcct agctctctat acagatcttc caaacagaca agcccttcag 60
agccaagatt gcttcaatca ccagcatgtc agaaatagca tcaccagctg cctgggttaa 120
caagtcaata atgttttcaa gcatcttagc agcttttctt ttcttatctt ccagttgttc 180
tgctgattgt tttatcttca tttcaacagc tgtactaaac agtgcagtgc catgcccatt 240
tgctctcgag                                     250

```

&lt;210&gt; 1561

&lt;211&gt; 229

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (21)..(22)

&lt;400&gt; 1561

```

gaattcggcc aaagaggcct nntgcagagg tgctttatat aaattattcc atttaaccct 60
taaattaaac ctacaggtag atattccagt agaatagtta caacaataga gagtaaatta 120
gcatatgtga aaaatggaca tatgctctgg tttttttttt tttttttttt caatagagat 180
gggatttttc tatgttgccc aggatggtct cccaacttct ggcctcgag 229

```

&lt;210&gt; 1562

&lt;211&gt; 209

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1562

```

gaattcggcc aaagaggcct agtcgtggtg caattgaggt ttctgttggt ccaatgggtat 60
ctgttattct ggcttttatt tggcttttcc tagcagctgc ttcactagca gtcactcggt 120
caggaagagc tgaaggaata gaagaattat tgatgttgga gactggacaa tccttttttg 180
caaattttaa tgcaaaatat gcaactcgag                                     209

```

&lt;210&gt; 1563

&lt;211&gt; 278

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1563

```

gaattcggcc aaagaggcct actttgaagc atacataata ggtggttggt tattttttcc 60
tcatggaatc atgggtagtt tcattgcagc tcactctctt ctgtttgttt cgtatagggc 120
tgatagttca ggaccattca gaccccatgt tcagttcata tgccataag tcccactacc 180
tactgaatga atcaaatcgt gctgagttga tgaaattacc tatgattcct tcttcgtcag 240
cttccaaaaa gaaatgtgag aaaggtaata atctcgag                                     278

```

&lt;210&gt; 1564

&lt;211&gt; 234

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1564

```

gaattcggcc aaagaggcct accctgatgc gtgatgatgg caccaccctc tcagatgata 60
ttcacgagct ttatgtgtac aagtgtgatg agaatagcac gtttaataac catgctctgt 120
acctgggctt gccctgctgc aaagaggact acaatggctg ccctaattat ccttctagcc 180
tcattctcca gcgcagcacc aaagagtctt tcttcactc cactacagct cgag 234

```

&lt;210&gt; 1565

<211> 294  
 <212> DNA  
 <213> Homo sapiens

<400> 1565  
 gaattcggcc aaagaggcct agtttctgta agatacagcc ttagtgaata aaacctggaa 60  
 tttcttaggt gagcggaaaa ataagaggct ttaaaactctt catccacaaa tacaagcatg 120  
 aaaaacttga cactttttta aaaaattttc ttttttatgg cggttgaggt ggaggtttca 180  
 ctgtgttgcc taggctgccc tcaaattccc gggctcaaag gatccgccta cctcaggctc 240  
 cctagtagct gggactacag gcacatgcca ccgcacctgg ctctccact cgag 294

<210> 1566  
 <211> 203  
 <212> DNA  
 <213> Homo sapiens

<400> 1566  
 gaattcggcc aaagaggcct atttaaacag caaactgtgt gcactcaact gttatcacia 60  
 tgttgtcaag aggtctgtgt cttttaccat tttacacaca attgttcatt acagtatgtt 120  
 gtacgcctcg tggaaaccag ggggtgtgtca tggtaagcag tgggtgtagt gcacctagct 180  
 tttatattat cacctgcctc gag 203

<210> 1567  
 <211> 241  
 <212> DNA  
 <213> Homo sapiens

<400> 1567  
 gaattcggcg ccgcgtcgac atgcagcccc ggaaagagct agagacaggg aagaacgatt 60  
 ggcagcactc acagctgctc aacaagaagc tatggaagag ttacagaaaa aaattcagct 120  
 caagcatgat gaaagtattc gaagggacat ggaacagatt gaacaaagaa aagaaaaagc 180  
 tgctgagcta agcagtgggc gacatgcaaa tactgattat gcccccaaac tgaccctcga 240  
 g 241

<210> 1568  
 <211> 366  
 <212> DNA  
 <213> Homo sapiens

<400> 1568  
 gaattcggcc aaagaggcct ccgagatttt ggtgaaaatt aaattagata aacgatgagc 60  
 agaatgtctg aacacatggt tggcaatcag aaagtatttt ctccaacctc cttccccaa 120  
 cacacctctc aaaacctttc ttttccattc tatcactcag ttcatctct cctggactac 180  
 tgctctccga cagggttttc agccttttgt ctactactcc ttcaaaccat cccaaacctg 240  
 ctattacaaa caacattcaa aaatcagaaa ttgatcatg gcaactccctg tcacaaatcc 300  
 tcctatggtg ataacattca gaacaaatct gcattcagag aaagtccacg tgtccctgc 360  
 ctcgag 366

<210> 1569  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<400> 1569  
 gaattcggcc aaagaggcct acgtcgattg aattctagac ctgcctccag cccataggct 60  
 aattgatatt cttaacgagg gaaggcaagc acctcatgaa aggtttttgtt tgtgttttct 120  
 tttttctttt tatctctggt tctagagaca gcaaccttat cagtccagca gatcttaata 180  
 gactagaaa aagccaggag agtattaagg aactcttaac acaagagaat ctcgag 236

<210> 1570

&lt;211&gt; 184

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1570

```
gaattcggcc aaagaggcct agcaagattg ttttctggga acagctgtat atgaaatgtt 60
gattctcagg gagacaccta gacacctgaa ttgcagcaga cattttatgg tgttgctaag 120
ttgctgggtcc ttctcatcag tagcaggcct actctcactg tcacatatct cccacgggtct 180
cgag 184
```

&lt;210&gt; 1571

&lt;211&gt; 184

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1571

```
gaattcggcc aaagaggcct aagatagttc acaatttatt cctgttatcc aagcctgcgt 60
aaacgggaat ttgctaaagc aaattgggaa ttggggatta actaaaggga attgtgagaa 120
agagaaaagaa caacttttaa gaagtatgtt aactgtcata ttttactta aggggctcct 180
cgag 184
```

&lt;210&gt; 1572

&lt;211&gt; 238

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1572

```
gaattcggcc aaagaggcct acgagatgaa tttctatgca ttattggaaa ataaggacaa 60
agtcttctcta tttatcatgt tgtggattat tgatggaaga tgctgtggat tggctcagtc 120
aacatccact tcacctcaa acaggtatgc cttcctgcaa agcaaaagga atcccaaac 180
ctcttgcagc tatagttgcc aaaagcaatt tcagttctgc caaccagagg gactcgag 238
```

&lt;210&gt; 1573

&lt;211&gt; 219

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1573

```
gaattcggcc aaagaggcct agattgaaag tgatacaatt tgaatattgg tatattgtca 60
ttggctcagta atggaaaaat gagattccac cagtgggtta ctcttttctt gtcttggttt 120
gctatgcctt atcccagatc agtggtttgt tccatcccta tggatcatctc taaagccctg 180
acaggagcat cccagactgg agaaatgcag caactcgag 219
```

&lt;210&gt; 1574

&lt;211&gt; 236

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1574

```
gaattcggcc aaagaggcct aatttgcatt cccttagagt cttctatttc tgtttttacc 60
aaagcagtct tcatcattga aagcagcaga gctgttttgc tcttaattaa ctaatttaat 120
aaaaaccagg gatttatttc aatcttgaaa taattgcctt ctgtcgaaca gtttaaaatc 180
atacagttag caaaaattta agaataatct aatgaaaaat tagaggggca ctcgag 236
```

&lt;210&gt; 1575

&lt;211&gt; 199

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1575

```

gaattcggcc aaagaggcct agtgatctat ccccatctga gcccgacaag ttttgagta 60
atattattaga cagagataac taatacaaat ttttcagtgg acaatatatt cctgtttttg 120
gatattgctg tcattggaag actgtgccag aaggtaaag aagggtgggtg taatgtttca 180
tattagaaaa atcctcgag
243

```

<210> 1576  
 <211> 243  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1576
gaattcggcc aaagaggcct aagagaaaac gaacagagct cttttatata attgaatgca 60
ttgcagggtta gctgaagtga aatcaagtca agaataattgt ctgaggaaat atcaagttac 120
tgtaaaggta aatccatcaa gaatatctaa agtcaggggag gaaaaaaaaa gaatttagtg 180
tttatctatg tatgttactt catgattagt agatccaata tgagaattaa tgggtgctc 240
gag
243

```

<210> 1577  
 <211> 252  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1577
gaattcggcc aaagaggcct atgagaaaatt aaatgatccc tgcagagttc caaaagttgg 60
gtcaattata tgtgtgcgtt attatttatt ctattatttg ctacaaatca agctcagttg 120
atcatttcca tgcattaga agataagtgt atctttctga gggctaaagg tcatgctgag 180
ctagaagggt gcaaggctgg agaggaagtg ctttctctcc agcgtcagca aaggctgcg 240
gcagggtcag ag
252

```

<210> 1578  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1578
gaattcggcc aaagaggcct agagagattg cttttctctg aatcatttca ttctagactt 60
tcattatttc ctgctaagtt gtaatgttac ctgtctcttc cttagtctct agcttatctg 120
aattttattc tgttattgcc gcacaaatta ttatcaagtt ccactttggg ctgggcgcag 180
tggtctacgg ctatagtctc agcactttgg gaggccgagg cagactcgag
230

```

<210> 1579  
 <211> 233  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1579
gaattcggcc aaagaggcct accttttttc ccccatcatt ttgcatctct tgccaaactt 60
taaccttgca gttctccatc cctcatcaaa tgccatcctc tgggatctgc ccattgcctt 120
gtttgcctga ctcaccatca tgccttagcat cttttgggca ctcagtctg tttttggcct 180
ctttacttgg acatcatttt aactgtcact cttcgaacac cttgaatctc gag
233

```

<210> 1580  
 <211> 219  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1580
gaattcggcc aaagaggcct aatttaaagt gctgcttttg attctctgga gcattatgca 60
ttatagttgt tatccaaaga cttttttgaa aatatgcaga aatttgggt aattatgtat 120
ttgtgtcttg tgacaattat gttttataga cctacactag tgccaggta ctattgtaag 180
atgttaaaat ctcaagaaaa tttcacagat gcaactcgag
219

```

&lt;210&gt; 1581

&lt;211&gt; 199

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1581

```

gaattcggcc aaagaggcct acgtcgattg aattctagac ctgataacaa aggcttgtct 60
tattcctgat atcctatcat catctttacc aatttctggc aattatatcc ctgggcctaa 120
gttcccattt ttgtatcctg cctcataccc caagtctctc atgaagtggg gtcctgcttt 180
gctctacaca ggactcgag                                     199

```

&lt;210&gt; 1582

&lt;211&gt; 272

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1582

```

gaattcggcc aaagaggcct aattgaattc tagacccccc gccagcttcc cacacctcat 60
acgcagccac atctgcccta ttctccatgc ttccagctt gcctgccctt cctcatctct 120
ccctgcctgt gcagacctcc acccttcttt cctccacccc tccatccccc aatgcttgta 180
gaccttccat tcattccgtc tcattcgtcg tggctctctga tcgtccatca cctgaccttc 240
tccaggactg tcttctcacc cttcccctcg ag                                     272

```

&lt;210&gt; 1583

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1583

```

gaattcggcc aaagaggcct aggagtggag gttcaggacc aaggggcttc tggtcctcca 60
gcccctgtac tcggccatgc cctgcggtca ctgcggttgc cgccccta at tgtgccaaag 120
gctgaccctg cctgggctgc gtacaccttc gccctgcttt gccttaaagc ctcggggtct 180
gcccgcccc tcgcccctgc ctggcactgc tcaccgcccc aggcgacgcc ggctggacca 240
ggcactgctg gcctttctcc tgcccggcct cggaaccagc ttttctctct tacgatgaag 300
gctgatgccg agagcgggct gtgggcggag ctgggtcagt cccgtattta ttttgctttg 360
agagagaggc accctaaacc gtcgattgaa ttctagacct gcctcgag                                     408

```

&lt;210&gt; 1584

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1584

```

gaattcggcc aaagaggcct atgtgaatac tgtaaaagtg ctgtatgttt agtagtgttg 60
tgtgcctggc agtgctgact atgactactg tgccatctgt ctgtgacctt gatgtcagg 120
acctggccat ggggctacca gcaaggatgt gcaaaggaag aaccgctgcc cctgccctca 180
gcttccttat gcccgagcca ctacttatcc gtgaatgtga gtgccaagag aaacctaat 240
tggtaggggaa gccaaaggcat ctcgag                                     266

```

&lt;210&gt; 1585

&lt;211&gt; 298

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1585

```

gaattcggcc aaagaggcct agctgtgttg ccattagaac atttaaatga gtttcattct 60
gagttttgta ttgttaaact gtgtctggaa actaaacttt ataatgtgtt acattttagg 120
tcagaagaca tgtcttcata tacatggcat ctttccttac ctctatgtgc catacgatgg 180
ttatggacag cagccagaaa gctatctttc tcagatggca ttcagtatcg acagagcact 240
taatgtggct ttaggcaatc catcttcac tgctcagcat gtgttgatga aactcgag 298

```

<210> 1586  
<211> 276  
<212> DNA  
<213> Homo sapiens

<400> 1586  
gaattcggcc aaagaggcct agaataccat cgtaacaag atataaatcc ttacatatac 60  
atgcttccca taccttttcc ttccattctg cttacgtaca atacttacct tgaaagttag 120  
cagtgaacac tcccagtcac catgcatagt ggaaagcttc aagaaataag aataataata 180  
aaaaagttaa aactataatg ataacttggc cgggcacact ggctcactcc tgtagtcccg 240  
gcgctttggg gggccgaggc gggcggatca ctcgag 276

<210> 1587  
<211> 186  
<212> DNA  
<213> Homo sapiens

<400> 1587  
gaattcggcc aaagaggcct atggtagttg aagagagaac gtttaattct caattcctct 60  
tgcaggtagg cctcgaactg ggcatacaata tattctacta tcggcttata gctgtcatct 120  
ttatttatct ggtctccaaa tcccacggtg tcaacaatgg ttaacttcag ccgtacattg 180  
ctcgag 186

<210> 1588  
<211> 427  
<212> DNA  
<213> Homo sapiens

<400> 1588  
gaattcggcc aagaggccta gatcctcaca cctaagccat gttttaggtc cagctacctc 60  
ctccatatca cagcagaagc tgcagtttca acaggtgtag tagcttgccc acaccttggg 120  
gactaagtgg gggcagcagg ttttgaatct gggtaggactg cagctggaac ccacatactt 180  
aatccatacc ctagaatcta ggtaggaaag agaacatgct ttatctgggg cccaggaaat 240  
gactgtggga ggcagtgcaa ggaattgagg ccagtgaggt gggcaggagg ccaatgatca 300  
cggccccttg ttgcctttgc aatgcagttg ggtacatgtg acagtcattg aagaatgtca 360  
aagggtcagg atgagattgt atgacatgat cagacctgtg ttttagccag atcactccgg 420  
gctcgag 427

<210> 1589  
<211> 410  
<212> DNA  
<213> Homo sapiens

<400> 1589  
gaattcggcc aaagaggcct agacaacttc agcagtcggt acaagtcaca ttccattttg 60  
attgaatata tgatcttgaa cagctcctgt acttgctctt tgtaaaaaaa aataaaatta 120  
ttttgaatta ttctaccttt gtaacaatt ggctaaaaga atcatcttta agaaattaag 180  
ccatttacat gtttgtgttt ttctatagca gagcattata ttttgcatta tatgtttcaa 240  
cctagtctaa gtgggtcttt ttacatttt tcaagaacgg atttctctga atacagcgat 300  
ataatttttg ttgtcaaatt cctaatagca ccatttagtc taaacttagt catttatttg 360  
tgacaataag atgtgttcag gggctccttg tttttaagag actcctcgag 410

<210> 1590  
<211> 318  
<212> DNA  
<213> Homo sapiens

<400> 1590  
gaattcggcc aaagaggcct aggacatgag tgactgaagg aacgaatatt tggagtgggc 60  
aactaacatc aaaagagact ttacattaa agtgagagat acttttggga gtagaattga 120

```

agttctttgc tctcttttgc ttgaaaaggg cagatttctt taggcagtag ttaggaatag 180
catcttgata tgagcaagat gaaacgtggc tgtcaaggga atcctctaaa atgcttttat 240
ctcactatga agctattttt aaaagttaca tgtttattac taattataat ttgggttacg 300
aacaggaac aactcgag                                     318

```

<210> 1591

<211> 208

<212> DNA

<213> Homo sapiens

<400> 1591

```

gaattcggcc aaagaggcct actctctttt aaataaactc cattcttccc attccatgat 60
gtcctctaac tctgctctcg ctttttctgc tcctgtttat tctcccctca ctccctgtct 120
cctggcattg ttcactccgc tgtgctccat tgccagaacc gtggaggaaa cccctccccg 180
ctgcagccca cccctctcct tctctgag                                     208

```

<210> 1592

<211> 303

<212> DNA

<213> Homo sapiens

<400> 1592

```

gaattcggcc aaagaggcct agacagttca actagaagag actggtaaga gattgcagtt 60
tgcagaaagc agaggtccac agcttgaagg tgctgacagt aagagctgga aatccattgt 120
ggttacaagg taggaacaga gttttaaact tgtacaaagt ttaatcattt caaattttgg 180
cattgtttta aaagacaaca ctattctgga taacctggtt tcttctgat gaacagtttg 240
tttggttgtt gttttaacat aatacttttt ttctgttgta gtattgttgg agactctctc 300
gag                                                                 303

```

<210> 1593

<211> 189

<212> DNA

<213> Homo sapiens

<400> 1593

```

gaattcggcc aaagaggcct actttaatgc ctttggcctt ccattctgat ttctctgatg 60
agaatattgc tggccctgct ttccttggtg ggtatttgcc aggcccaatg ctttaacctt 120
aagctgatac tttgcttttag atgtcagtct cgttaccagc agccttttga cccaacaacg 180
gcactcgag                                                                 189

```

<210> 1594

<211> 291

<212> DNA

<213> Homo sapiens

<400> 1594

```

gaattcggcc aaagaggcct agtaaaaatg aaaatgaaag atacatactt tatgccattc 60
atttgtatga atataggaaa gcacttgaac ttttggcctg tctgtggtcc ttcagaattg 120
ggcagtgga catcctgtgg gaagcactgt catgtgggta cctcagagcc tgccctctct 180
tttcagcctt acctcactgc acagctccag ccaaagggcc acgtgcacca aagggtcaca 240
cctgaccagc ttttaatcat tccatacact gaaatgcctt cactcctcga g          291

```

<210> 1595

<211> 416

<212> DNA

<213> Homo sapiens

<400> 1595

```

gaattcggcc aaagaggcct atcccggagc aagcgggcaa agctgctcaa aaaggaaatt 60
gcccttctcc gaaacaagct gagccagcag cacagccagc ccctgcccac ggggccaaggc 120

```

```

ttggaaggct tcgaagagga cggagctgcg ctggggccgg aggcgggcca ggaagtcctt 180
ccgaggttgg agacttttct gcagccaagg aaaaggctcg ggagcacatg cggagactcc 240
gaggttgagg aggagtcctc aggaagcgcc ctggacgcag gtctcaccaa cggcttttgg 300
ggtgagagga gcgagcagga gccggggcgg gccctgggga ggaaggccac accccgacga 360
cgctgtgcct ccgagtcctc catctctctc agcaacagcc cgctctgcga ctcgag 416

```

<210> 1596  
 <211> 297  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1596
gaattcggcc aaagaggcct aaaaagacat ggagaaatca ggtttttttg gtgaaaataa 60
acatcaatac ccattttgac gtgaatatct aaagtgttat gaaaccaact acatatattt 120
ttaaagtctt ggggctcata cgtgaagggt gagcactgtg ggcaaatatt gaaagattct 180
ctacatttaa agattattta agggactggg atttatgtca caggataggc taaataatca 240
gtcacaacag attctggagt gaactgggga gaagtatggg atagtgcaga gctcgag 297

```

<210> 1597  
 <211> 217  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1597
gaattcggcc aaagaggcct agttgaactg tgtgttatct gatttctaaa ctcgtagactg 60
ttccacacac tcttgacctc cggttgtgaa tataaacaga gacatttaga tgagcatgtc 120
taattggtcat attaaactta gaatttggag actcttgagt ttctttcttt ttcttttttt 180
tttggagaca gagtctcgct ctgtcccaaa gctcgag 217

```

<210> 1598  
 <211> 403  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1598
gaattcgcgg ccgcgtcgac cataccagaa ttttaggatt ttattttacc ttctaataa 60
taattagttc taaatgtgtg ttaacccttt ttcccccaa tttaagggtt tgtgttttca 120
tatcttatct ttttgattg ctcttataat aatgaactct tcctgtatag gtatgaaatc 180
accagaagaa caactggtgt gtgtgccacc acaggaggcc ttccctaacg acccccggt 240
aataaataga cagagaagtt ctgattacca gtttccatcc tctccattta cagacacact 300
aaagggcacc actgaggatg acgtgttgac aggtcagggt gaggagcagt gtgtgccagc 360
agcagaggca gagccgcctg cagtgaagct aaccacgctc gag 403

```

<210> 1599  
 <211> 117  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1599
gaattcgcgg ccgcgtcgac ggtgtagatg atgtttgggg tcaatttctt ctccctgcctc 60
ttcacagtgg gtcactgct agaacagggg gccctactgg agggaaccca actcgag 117

```

<210> 1600  
 <211> 103  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1600
gaattcgcgg ccgcgtcgac cgagcatcct aggatatcca aaaggctaga gtttggagag 60
gaaagttaat ctatttatga agtttaggaa aggcacctc gag 103

```

&lt;210&gt; 1601

&lt;211&gt; 355

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1601

```

gaattcgcg cgcgctcgac atcacgaggg cttcccttca gagagctgac aatattaaca 60
gcacagagaa tactaggtct gttgattaaa actcaaggct tcatactgta agggcccaaa 120
aggaagcatt aaattgggcc ataggaagga caagtcacat ccagtttagt gatcaatggt 180
ggtttgggaa agaaataaca gaattctact cctacatgat agggagagac tacagaggcc 240
acctagacca acaaactctg ccatacaggtc cttgaatcat tgctaccatg tcctggtggt 300
ggtttagtagca ttgctagtga tatgtaactc attacctact tatgcaaacc tcgag 355

```

&lt;210&gt; 1602

&lt;211&gt; 613

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (592)..(601)

&lt;400&gt; 1602

```

gaattcgcg cgcgctcgac aaggagataa atatcttgcc ttagtcatta caaagcaata 60
tcttgatatg taaatgctaa tctggggccc gggcagtttc aactagaaat atacgtaaga 120
tttcagaaaag aactcatacc agtttgggtc tatgtctttt cttaagttct tactgtgatg 180
atatggttca ttaaaattat tttttttctg atacattcta attaacatga aatcctttat 240
gtactgcact agcttttaaaa aataataata attttaagag actccaatga acattaatgc 300
atTTTTTTat ttatgcacag caattatatt ccagaagtga gaatcatgtc aattcccaac 360
cttcgctaca tgaaggttag taccttgctc attaacagga agaaaaaggg attgatcaat 420
gatgtgtgta catgtgtatg tgggtggcag tgtgtgtatt tggcacagga tccagtgagc 480
aagggataga aaagaagaca gtttgggata ataaagacta aatttgttga cactgagatt 540
cttgacaaca gcattctgatg aaaagtaggg agaaggagca ggtgtcacat tnnnnnnnnnn 600
ntgagtactc gag 613

```

&lt;210&gt; 1603

&lt;211&gt; 337

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1603

```

gaattcgcg cgcgctcgac gggcgaggtc ggactggaag gtaaaaggtc tgccagagtc 60
ttgggagaag agaggtccca gtggggactg gtacgtgtca gcctgtccac actgcttcct 120
cagggtgggta cagtaattgt gagcgacctg cgtcacaggg tagatactga actggcagag 180
agcaccttca aactggactg catgcgggct catcttccca aagaggaagg agcccccagg 240
gtcgagtgtca ggggtcccctg tggaaaggca gcaggacagg caccggcgcc tgccccgagg 300
cagtcaccag agtgactgtg cggcatcgga gctcgag 337

```

&lt;210&gt; 1604

&lt;211&gt; 458

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1604

```

gaattcgcg cgcgctcgac cttggaactc cgttatccgc gatgcgttcc ctggcagcta 60
cattcctgct cctggcgctc agcaccgctg cccaggccga accggtgcag ttcaaggact 120
gcggttctgt gtagggagtt ataaagggaag tgaatgtgag cccatgcccc acccaacct 180
gccagctgag caaaggacag tcttacagcg tcaatgtcac cttcaccagc aatattcagt 240
ctaaaagcag caaggccgtg gtgcatggca tcctgatggg cgtcccagtt ccttttccca 300
ttcctgagcc tgatggttgt aagagtggaa ttaactgccc tatccaaaaa gacaagacct 360

```

atagctacct gaataaacta ccagtgaata gcgaatatcc ctctataaaa ctggtggtgg 420  
 agtggcaact tcaggatgac aaaaaccata gtctcgag 458

<210> 1605  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

<400> 1605  
 gaattcgcgg ccgcgtcgac cttaaaagtt atagatttgc aaatttcaaa gaaagccgtc 60  
 ttattttaatt gatataattga aatttataac tcacctttca gtggaatagt ttttgtaaat 120  
 tcatgagaaa gaaacaaaat atcaatttat agtagttgat ggtgttataa atccagaaga 180  
 agctctataa cattataaaa atcaagattg gttgctcaca ttttagagta ccaaaggcag 240  
 caaaatgatg taatttataa ataataaatc ttaaactgtt gataaaccaa actctgaagt 300  
 atttttaag aggtttattc taagccaatg agtgaccata gcccaaggag cagtctcaag 360  
 aggtcctgag aaagtgtgca ctgggtgttg gagttacatt ttagggagta ctcgag 416

<210> 1606  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<400> 1606  
 gaattcgcgg ccgcgtcgac cctaaaccgt tgattgaatt ctagacctgc ctcgagtcca 60  
 ggatattgac ttctgaattc ttaagtttcc ttcttccag ctctatgagg ccactaatag 120  
 ctctatcaat gttattggcc ctcatcccag gcaacactca gcttctcagc tttttgcctt 180  
 ccagaatca gcaaatatc tcagctaaga aaaaaaaat agctgcagca catcagctcg 240  
 ag 242

<210> 1607  
 <211> 297  
 <212> DNA  
 <213> Homo sapiens

<400> 1607  
 gaattcgcgg ccgcgtcgac aatcaggaat ttgaagaaaa tggaaatgtt tacatttttg 60  
 ttgacgtgta tttttctacc cctcctaaga gggcacagtc tcttcacctg tgaaccaatt 120  
 actgttccca gatgtgtgaa aatggcctac aacatgacgt ttttccctaa tctgatgggt 180  
 cattatgacc agagtattgc cgcggtggaa atggagcatt ttcttcctct cgcaaactcg 240  
 gaatgttcac caaacattga aactttcctc tgcaaagcat ttgtaccaac actcgag 297

<210> 1608  
 <211> 366  
 <212> DNA  
 <213> Homo sapiens

<400> 1608  
 gaattcgcgg ccgcgtcgac cattgacttc ttctaccggc cgcataccat caccctgctc 60  
 agcttcacca tcgtcagcct catgtacttc gcctttacca gggatgactc tgttccagaa 120  
 gacaacatct ggagaggcat cctctctgtt attttcttct ttcttatcat cagtgtgtta 180  
 gctttcccca atggtccgtt cactcgacct catccagcct tatggcgaat ggtttttgga 240  
 ctcaagtgtc tctacttctt gttectggta ttectactct tctgaattt cgagcagggt 300  
 aaatctctaa tgtattggct agatccaaat ctctgatagc ccacaaggga agcagaagtc 360  
 ctcgag 366

<210> 1609  
 <211> 120  
 <212> DNA  
 <213> Homo sapiens

<400> 1609  
gaattcgcgg cgcgctcgac gtgcattata gtgatttcag tagattcaca ctcaaattctt 60  
ttcagtgta tacattttatt aagccataaa gttatgaaac ctcagctct tgtactcgag 120

<210> 1610  
<211> 209  
<212> DNA  
<213> Homo sapiens

<400> 1610  
gaattcgcgg cgcgctcgac tgacaccttt ccccaaatat agattacaat aaagaaggct 60  
actaaatgca tctgaaaagg tggatcctga ctactgttag gctagactcc ctaagctccc 120  
actatgccc gctaatttgt ttttgtattt ttagtagaga cagggtttca ccatgttggc 180  
caggctggcc tcgaactcct gacctcgag 209

<210> 1611  
<211> 230  
<212> DNA  
<213> Homo sapiens

<400> 1611  
gaattcgcgg cgcgctcgac attctagacc tgcctcgagt ctaccaggga ctgcttgttc 60  
tttcttaaaa ccttaagcta actgtaggtc atcattcaca tgccaaaaat ccagccatgg 120  
cttctctttc aaaattaaca gtgaatatct tatccctagg cccattccta ctctccagcc 180  
ttaaccttct tcccttctgc cactgctatc aagaacccgg cccactcgag 230

<210> 1612  
<211> 387  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (380)

<400> 1612  
gaattcgcgg cgcgctcgac tgggccttta gaagacttgg cttcttcact ggagagcttt 60  
tattcaggag gctgctagca ccagtcctcc ctgcggcctt gccaaaggga gagtgtgaa 120  
aggggtcatc ctctgtgctc gggctgactt caccgtcacc tggtttcttc tccttcaggg 180  
aaaagggttt cttattgggg cttattttct tcctgtgcca aaagatagcc atgtctttat 240  
gcaaactttt ccccttcttt ctagccaggg ctgcagatgc atgatcaaag aaatgtacca 300  
ctgcaagctt tttgctgctc ctggtaaaga tgcgctgcac ttagcaatt ttgccaaat 360  
ggttctccag aatggaacgn tctcgag 387

<210> 1613  
<211> 273  
<212> DNA  
<213> Homo sapiens

<400> 1613  
gaattcgcgg cgcgctcgac gtaggaattc caggttcagg ttccagcaca gccaatat 60  
tcacaggatt gttgtgtgaa ctgaatgaaa cacacacata tgaaaacaag gtatcttgat 120  
aaatcagtaa cttttataac accgttgctc caaaaaaag cttacttta ttactttatg 180  
tgcattgtct cattaatata ttctagtgtc tgtgattgtc aggtcagcac tgtcagccac 240  
ttcaaagaag aagagaatag gggagatctc gag 273

<210> 1614  
<211> 345  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 1614

```

gaattcgcgg ccgcgctcgac gttcttagta tttaagaggc cttcataatc acagaagaga 60
gtgatattat aggattagaa cattgtatatt ttgggttttg gtgctgaagt tctaattctta 120
cctctgaagt gatcctgata ttttgccaaa gttgtgactt taatattctg tggcttgtaa 180
ttgtgatttt tctaatacca gagtagaatt ctggggagga atttttctaa acccaaatac 240
ctcaatttga agtgaggctt ggcttttaaa aataacacat ttgagtttga gcttttcctg 300
caattaagcg gtatgctgca aaaaggaatt cggttagcgc tcgag 345

```

&lt;210&gt; 1615

&lt;211&gt; 288

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1615

```

gaattcgcgg ccgcgctcgac cgattgaatg ggggttttgt gggttctttt tgttgatatt 60
attgttgttt tctgtttgtt tgtttgtttt ttgtttgtt tgttttttat ggtcaggcca 120
cttgtctata gtccctgctgt gggttgctgt ggtctgcttc agaccctagt tgcctcagtt 180
tttcccatat ctgaaggtat caccagtga agctgcaaaa catcaaagat ggcagcctgc 240
ttcttctctt gcttcttctt cgccgcagct catgcctgta atctcgag 288

```

&lt;210&gt; 1616

&lt;211&gt; 163

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1616

```

gaattcgcgg ccgcgctcgac gtgttcccga cacaagaaa tgataaatgc ttcaggtgat 60
agatatgcta attatcctcc ttttatcatt acactttata caaatgtatc aaagtttcac 120
actggctggg ccggtgact cacacctgca gtccgaactc gag 163

```

&lt;210&gt; 1617

&lt;211&gt; 292

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1617

```

gaattcgcgg ccgcgctcgac attttaaaac agctgtccat actttcttga acctaaagcat 60
acaattgaac tgtttccact gcacccgtcc taacatttct ttttgtctca tttctctttg 120
tggctaatta ttaagataat ataaacttgc attaataaat ttaatgagaa agtgtttagg 180
ctatgtgtgg cagctcacat ctgtaacccc aacacttttg gaggtgagg caggagaatc 240
tcttgagccc aggatttcca gatcagcctg ggcactactg caagacctcg ag 292

```

&lt;210&gt; 1618

&lt;211&gt; 368

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1618

```

gaattcgcgg ccgcgctcgac cacacagtgt taccggatga ggagtctggt cttgctttgc 60
tttctctgcc ttttctgtct tgtcattggc tctcccgcgc tctacacgc acccgcctg 120
ttgcttctct tattctccag ttccttccca atcccccttc acttctcttt actccccctc 180
cccaggtcag tgctcgcggt ttcctccctc tttctgttct cccatcctcc cgggcagctg 240
tctctgtcgt gttctgtctc ctgctctccc gccctcctac acgcacccgc ctgttgcttc 300
tctcattctc cagttccctt ccaatccccc ttcacttctc tttactcccc tccccaggt 360
cgctcgag 368

```

&lt;210&gt; 1619

&lt;211&gt; 108

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1619  
gaattcgcgg ccgcgctcgac ggtgggtcaa tcatcagttt aggctgccat aactaatatc 60  
atagacgggtg gcttaagcaa cagaatgtat ttcttcacac tactcgag 108

<210> 1620  
<211> 287  
<212> DNA  
<213> Homo sapiens

<400> 1620  
gaattcgcgg ccgcgctcgac caagaagttc aggaacaagt ctcccaaaaa aactgaaatt 60  
gtactgctct aatgttaaag tcaccttttg catttctctg gctaggagtg aggggaactg 120  
ggaagaatga attcctgaca cacctttctt tgggtttttt ttggctttt gcagtgcctg 180  
catctacctc cagcccgctc ccaggggcca attacagtcc cactccctac accccctcac 240  
ctgtcccccac ctacactcca tccccagcac cagcctatac cctcgag 287

<210> 1621  
<211> 129  
<212> DNA  
<213> Homo sapiens

<400> 1621  
gaattcgcgg ccgcgctcgac gggccccctt ttccccagtc ttaacaacaa aaaacaaaaa 60  
accagccttg agatctacat tgtgatgctt ttaataaact tgactccttt cttggccagc 120  
tgtctcgag 129

<210> 1622  
<211> 336  
<212> DNA  
<213> Homo sapiens

<400> 1622  
gaattcgcgg ccgcgctcgac taaaatcaga acgtcagctc ccggtttggt aatgggcagg 60  
tgttttccaa aatttggttg taaagctttt gtttggtat tcaaatttat ttccccttga 120  
aacaatatata tctacttagt aaatatctgt ggaattatct ttaagctat gagtagcaaa 180  
aaagtgggcc ttgtgtcac ccacttacc ctcctcttta gtcctgggg cagacatctg 240  
gaattcttcc tagcactctt cctgctgata ccagatacaa ctgcagtagt tcataacatg 300  
accctgcagg tgcccacaa caaggcatta ctcgag 336

<210> 1623  
<211> 301  
<212> DNA  
<213> Homo sapiens

<400> 1623  
gaattcgcgg ccgcgctcgac ggattaccag cacctcaggc cacaaagcat ccatcagcgg 60  
ggcgctctaa ctgtggacca cctctgctgg cgtgtgggca gtgactccca cattcagcgg 120  
gcgccacacc cacccaatat gcatgtttgg ggtgaggcac ttgttctgga ctccttcaca 180  
ctacagggta gctataacca gcctctgggc ctgtccagca ccagtcaga tacccttttt 240  
cttgattgta ccattcgagg acttcagggt gaagcatcag atacctgtgc ccacactcga 300  
g 301

<210> 1624  
<211> 202  
<212> DNA  
<213> Homo sapiens

<400> 1624  
gaattcgcgg ccgcgctcgac tggagatgag tccttgggtc caattcatgc tgtttatcct 60  
gcagctggac attgccttca agctaaacaa ccaaatcaga gaaatgcag aagtctccat 120

ggacgtttcc ctggcttacc gtgatgacgc atttgctgag tggactgaaa tggcccatga 180  
aagagtacca cagaaactcg ag 202

<210> 1625

<211> 219

<212> DNA

<213> Homo sapiens

<400> 1625

gaattcgcgg ccgcgtcgac ccacatttcg tttgtgtctg tttccaccat tcatagaaac 60  
cttggaaacca ctctcacagc aatgctagga tgtttcatgg acctgttaag cattttgatg 120  
atacaagaca tcctatcaat gccagtctta ttttcgctag gactctgctt ccacagtaag 180  
ctcctaagggt gctcacccaa ccaggagaa aagctcgag 219

<210> 1626

<211> 389

<212> DNA

<213> Homo sapiens

<400> 1626

gaattcgcgg ccgcgtcgac gttgcagacc tcataatgac gctgacattt ccatttcgaa 60  
tagtccatga tgcaggattt ggaccttggt acttcaagtt tattctctgc agatacatt 120  
cagttttgtt ttatgcaaac atgtatactt ccacgtgtt ccttgggctg ataagcattg 180  
ctcgctatct gaaggtggtc aagccatttg gggactctcg gatgtacagc ataaccttca 240  
cgaagggttt atctgtttgt gtttgggtga tcatggctgt tttgtctttg ccaaacatca 300  
tcctgacaaa tggtcagcca acagaggaca atatccatga ctgctcaaaa cttaaaagtc 360  
ctttgggggt caaatggcat actctcgag 389

<210> 1627

<211> 265

<212> DNA

<213> Homo sapiens

<400> 1627

gaattcgcgg ccgcgtcgac cacatagaga cttaatttta gatttagaca aaatggaaat 60  
tatttcatca aaactattca ttttattgac tttagccact tcaagcttgt taacatcaaa 120  
cattttttgt gcagatgaat tagtgatgac caatcttcac agcaaagaaa attatgacaa 180  
atattctgag cctagaggat acccaaaagg ggaaagaagc ctcaattttg aggaattaaa 240  
agattgggga cgctccgaac tcgag 265

<210> 1628

<211> 232

<212> DNA

<213> Homo sapiens

<400> 1628

gaattcgcgg ccgcgtcgac gcatctcgta agagtaagaa tagttagata ttcttctgtg 60  
ttatcttagt accattacca catctgagaa aattagcaat aattgttcag ttttctctcc 120  
aatctctatt caaaattgtc ccagctctat tttgtgggac ttgaaaaaaa tcagataaag 180  
cagataaatc aaatacatac catttatgca tttgattgtt aggtgtctcg ag 232

<210> 1629

<211> 483

<212> DNA

<213> Homo sapiens

<400> 1629

gaattcgcgg ccgcgtcgac ggaggagaat gagtatgtta atgaagataa aaagaagtga 60  
catctcttgt acactgaact cacagaacat ttgtttacaa ttctgtgtga ctgtctgctt 120  
ggagtttaca tatcaaagt ctgggctgtt tggtaacgta acgtttccaa acattttgtc 180

```

tggccaatgg gttctataga aaagtcggt tagtgtagag aaattgaaa cagatctatt 240
agggttggtgc aattgctttt gcaccaacct aatatttgat ggcagtgggt tatcatgata 300
taccttttat gaattaatgt ttataaatga ctgtactgaa tttaaaaccg tacagtttca 360
tttgcathtt gacattactt tattatacat ttgcathta aaaggctgca ccagtgggt 420
tttcttctgt ttatttctca aaatatagag attctgtgat ttatttggcc tgttctgctc 480
gag 483

```

<210> 1630  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1630
gaattcgcg cgcgctcgac taaaaatagg tttttaaat ttagctaagt cttaagtaat 60
ttgccgttgc taataathtt atctccttga gtcgggtgtt ggggagagat tttatattca 120
ataathtttt gttattttgt aatgcagagt gtttattcat ttcacagttc cgcaatggat 180
gtagtatttt gggattgccc tgtccagaaa attttcagct acacaccttt aaaggaaaat 240
gtttctatct cagatgaaac atgtaatttg ggatggctcg ag 282

```

<210> 1631  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1631
gaattcgcg cgcgctcgac gagaatagt cacaagtaag aattaaaata taggcccggt 60
gttccatttt agtgggggtt gatataaagc acccagaaag taaatgcttg agaatagttc 120
acaagtaaga attaaaatat agggccgttg ttccataatg aaatcctata atttggccat 180
aaaactaata tttttaatta ttgcataat tggattaggg agcaagggta aagctgaaag 240
actcgag 247

```

<210> 1632  
 <211> 253  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1632
gaattcgcg cgcgctcgac aaaaaagtca gttgtattgt aactcccttc ctacagacac 60
ctcccatag aataaaccca gaataaggat gacatttttg gtaaaactat tcaactatc 120
aatattacac attttccctg atatctgtag atctggacaa aaactaggta aaaatctagt 180
tcaagtatcg tgtaacttac agttatgcac cacctaccaa cgtttcaatt atttaacaat 240
ggactcactc gag 253

```

<210> 1633  
 <211> 388  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1633
gaattcgcg cgcgctcgac ctgagattga cataatgggt agagaatcat ctgaggtctg 60
tctaattctc tatataaggc ggtatagcag atgtaacaag tatactctta actacagtgt 120
taaaaatgaa tggaaggact cagagtagtt gcttgaggga tgggttggag gggagcaaag 180
taaatacagg gagaccagt aggaggccct ttttcagggt agagcttata tcttttgaat 240
tagggttatg gttgtagaga agatagatgt agaaggaaat gaaagaatht ttagggatat 300
gtcaaaaata actcctctgt agctttcaca attgggggtt tgttgcctgt gaaggggagt 360
ggtgggttaag ttggaggctt ttctcgag 388

```

<210> 1634  
 <211> 306  
 <212> DNA

<213> Homo sapiens

<400> 1634

```
gaattcgcg cgcgctcgac ataactgatca cgtgggatgt tgtttgccta cagggtaact 60
tgagggggtc aggggtcgta gtggcccaga gcatgggtccc cagtgccac ggatgagacg 120
gcgtgtgtgc tgtgacctg ggcaacttag catcgctgag cctcagagtc agtgtgtaga 180
attatctaag gggcttgta caagatgccg gcttcccacg gctttgtca gtactcagtt 240
aatctgctgg tgcttgtaaa gcacctgaaa cagggtttgg ccttcagaaa atggcagcta 300
ctcgag 306
```

<210> 1635

<211> 203

<212> DNA

<213> Homo sapiens

<400> 1635

```
gaattcgcg cgcgctcgac aagtcctttg ccatgaggaa aaagtgggtt tttgcttcat 60
atggtaaatac tatattattc atattgaatg tattaacaga taatgggtgca aaagcattct 120
tcccagggga agagtgtatc atgcataact gcaatttaag tccttctttt gataataactt 180
caaacatac acagctactc gag 203
```

<210> 1636

<211> 210

<212> DNA

<213> Homo sapiens

<400> 1636

```
gaattcgcg cgcgctcgac ctcaagatct ttgcaaatgt ttcttgtctg gatcccttc 60
ctcttctctgt caactttttc cctagttacc tcttacaatc cttcagaact cagatgcaaa 120
tcactttctc aaggcctcaa ggaagccttc tgtggccctc cggaacagat caagttcagg 180
ttcttgctta ttacccac taaactcgag 210
```

<210> 1637

<211> 183

<212> DNA

<213> Homo sapiens

<400> 1637

```
gaattcgcg cgcgctcgac ccggagtact gttggctacc cctctgcttt cattccaaga 60
ttttttcttt atctttgatt ttagatttta tgcagtttaa atatgatatg cctaggtgta 120
gcatttgggg ctttgtgtgt gtgtgtgtgc gcgcgcgcgt gtgtgtgtat gagagagctc 180
gag 183
```

<210> 1638

<211> 241

<212> DNA

<213> Homo sapiens

<400> 1638

```
gaattcgcg cgcgctcgac gaataatgaa accaacgaat catctggatg ctttttatta 60
tcattcctgca gctgaaattc taaacaatat cagtgatagc atactcccca ttggggatca 120
gtatgaagaa ctgtgcctgc acagaaagcc ctcagtgcac tgtctctgc tattatTTTT 180
ccttgaagtt ccatttctca tcattgactc aaaatccttc acggggcccc tactgctcga 240
g 241
```

<210> 1639

<211> 272

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1639

```

gaattcgcgg ccgcgtcgac cagttttaca agtgcccagt gtgacaagta taccacgtgt 60
gaggttggcg ggaccagtct atgaggacag gaaagaacag tatgtgggca tctttatttc 120
cattagtcac tttttcattc aacaaataca tgttatgcaa tgcagccttt tgggtgttgt 180
gctgggcaga taaaagacac atcccacagg gtcttgccct taaggattct ccagctctgt 240
ataataatat gccaaaaacc acagcactcg ag                                     272

```

&lt;210&gt; 1640

&lt;211&gt; 244

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1640

```

gaattcgcgg ccgcgtcgac ggtcaggcgg gaaaacggtc ataaaagtat ccaagtaagg 60
aaaagggaag gctgggtaag gctgcaagcc ctccggacaag ggcgggccat gcaggccttc 120
cgggtgcagt ccgggggctg cgtattctct tccgggtgag gtcgcggctg ggaggggaaa 180
agctgggacg aggtaaaggg cctggctggg caccatggcg gcagggtggga aggtcgggct 240
cgag                                     244

```

&lt;210&gt; 1641

&lt;211&gt; 555

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1641

```

gaattcgcgg ccgcgtcgac ctctgactgg aagtcgcagc tgggtcatcca ccgcaagggc 60
caccggcccg aggttccatg agcagccaga cagcacagtc cctcggggcc tcggtgttct 120
cggggccttg atacagcctc tggggcacca gcagaagact ctggaggcag caggggatgc 180
cagagtgaac aaggggtccc aagccagttc cctgcccctg gtctgggtct ccccaaaaaga 240
ctgggtgcaa ggaaaaggag ctgctctctc tcttcttgcc cctgcctcct agaggggagt 300
ctgggttccc tcttatggtt gaccagtgcg tgtggggtga ctgccaagca ccaggctccc 360
tcctctccctg tgacatggcc tgggctgaca acactccctc tcctgggacc tccttgctc 420
aggtgggtgt tcaaaaactg tgccttccca ctgctctgtg cagaggctgg gcctgaggtc 480
tcagtgtgga gacgagcaga agaccacgga aagcacagtt ggcttccgtt tctcctgctc 540
ccctgtatgc tcgag                                     555

```

&lt;210&gt; 1642

&lt;211&gt; 217

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1642

```

gaattcgcgg ccgcgtcgac attgaatgta tgtctttata tactttttac tgagattttt 60
ctgttttatg gtagatactt taaatttttt atttatttca agtgtgttca taattgcttg 120
ttgaaagggt tttatgatag ctgctttaaa aatctttgtc atctttgtgt tagtgtgttt 180
tgttgtgtgc tttcttcatt tagttgaggt tctcgag                                     217

```

&lt;210&gt; 1643

&lt;211&gt; 224

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1643

```

gaattcgcgg ccgcgtcgac attttatatt tgggtgtattt aaggctacca aagaaaaaag 60
aatatcgaaa tagatttata tttatgaatt tcattgctgc cctaaacttac tgccttattt 120
tctccatcct ccagccttgg atgactccta ttccaagtca ttcccacccc tcaggttgca 180
taggagccct tagtctactg cattcctcca gtgcagcact cgag                                     224

```

&lt;210&gt; 1644

&lt;211&gt; 249

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1644

```
gaattcgcgg ccgcgtcgac ttcttacttc agcagttctt ttgtaaatta catttactgt 60
gtttttcata aaggtagaaa aaaattacca ataatttcag aaccaaagtc accattatta 120
ccattgacat ttaaaaaaat aatgttttat ggtggaatat tcttcaaaaa atactgcctc 180
atcagtgttt ttgcaagtc ttttcctgtg tttctttcat ttttctctaa aacaagcaaa 240
aatctcgag                                     249
```

&lt;210&gt; 1645

&lt;211&gt; 479

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1645

```
gaattcgcgg ccgcgtcgac gggagggcctt tgggttttga gctcagtgtt ctgggattca 60
tatctagagc tctcagattc atagccaggg ctccgggggt cataccggg gctccgaggt 120
tcatagccag ggctttgggg ttcataccta gggctctggg attcaaaactc agggctctga 180
gaatctgatt cagggcttct ggggtgcaaac tcagggcttg ggggcacaag cccagggcct 240
cgggaactcaa accccgggct ttcaggctca aatctggggc tttgggggtc aaactctggg 300
ctttgtggct caaacccagg gctctggggg tcaagcccaa atggtatctc ttcgacttca 360
tagtccccac tgccttcttg ctgagaaatt tcctcttctc cattctcact catgttgctc 420
ctgaggtacc cttcggggct cctcatttctg tcagaactct gcacatcctg gggctcgag 479
```

&lt;210&gt; 1646

&lt;211&gt; 235

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1646

```
gaattcgcgg ccgcgtcgac atactataag gataaacaaa gtcaagtcca taaagcaata 60
atccctcaga aggaaagtcc ttacttttca catattaata tttagtaatt tttcctgctt 120
ctaaaagtga gagtatcaca ccctaaatga aactgtctca ctaagagaca tcattccatt 180
tccacaaatg aagattttat tccaagaaac gagtttactg attggagcac tcgag 235
```

&lt;210&gt; 1647

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1647

```
gaattcgcgg ccgcgtcgac cttgctagct atggccctcg tactcggtc cctgttgctg 60
ctggggctgt gcgggaactc cttttcagga gggcagcctt catccacaga tgctcctaag 120
gcttggaatt atgaattgcc tgcaacaaat tatgagacc aagactccca taaagctgga 180
cccattggca ttctctttga actagtgcac atctttctct atgtggtaca gccgcgtgat 240
ttcccagaag atactttgag aaaattctta cagaaggcat atgaatccaa aattgattat 300
gacaagattg tctactatga agcagggatt attctatgct gtgtcccgag gctcgag 357
```

&lt;210&gt; 1648

&lt;211&gt; 208

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1648

```
gaattcgcgg ccgcgtcgac gtaagctggt ttctaccttc aggggtttta tgaaaactga 60
tctgggttat cagaaaaaga tgtaaaaca gaaaatgacc tttctgccag tgacttgatga 120
atgctttctg tgtttggtgc tccacctaac aaagtgtctg tttttgccct accaagtgtc 180
agctttgggt gggacgaggg aactcgag                                     208
```

&lt;210&gt; 1649

&lt;211&gt; 153

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1649

```

gaattcgcg cgcgctcgac gcctctataa atctgagtat tgactgctaa aagtcaatat 60
ctgctgttca ttcagaaaat gagggtaact aacttgagta gcattgtttt tcttgccctt 120
tcactcccac cccaggccct ggcagtgttc gag                                     153

```

&lt;210&gt; 1650

&lt;211&gt; 242

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1650

```

gaattcgcg cgcgctcgac ctactacaga gttaggctta actccaccca acagccaagt 60
ctgaaaccac tgacgggtacc atgagggctt tcattttctt tctcttcatg ctccctggcca 120
tgttctcagc atcttcaacc cagatttcaa ataccagtgt cttcaaaacta gaagagaatc 180
caaaaacctgc acttattctg gaggaaaaaa atgaagctaa ccattctagga ggacgactcg 240
ag                                     242

```

&lt;210&gt; 1651

&lt;211&gt; 286

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1651

```

gaattcgcg cgcgctcgac ccaaaaccaa agaggaaagc caaatactac ctaagacaca 60
ttggcacctg agtatatatt agaaaactat gcaaataata attgcagctt ttgccagagc 120
tcaatttgc acttcagaga ttatatgtct tataacccaa ctgcaacttg ctgctgtggc 180
actgactggg atttccagtg tccccatag tagttctaag agggttacta atattttaat 240
aatatttgaa ttctttgtc ataatgaatg tgccaaccaa ctcgag                                     286

```

&lt;210&gt; 1652

&lt;211&gt; 221

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1652

```

gaattcgcg cgcgctcgac cagagtctac atagaactat gcttcgtggg gttctgggga 60
aaacctttcg acttggtggc tatactattc aatatggctg tatagctcat tgtgcttttg 120
aatacgttgg tgggtgtgtc atgtgttctg gaccatcaat ggagcctaca attcaaaatt 180
cagatattgt ctttgcagaa aatcttagtc gatctctcga g                                     221

```

&lt;210&gt; 1653

&lt;211&gt; 319

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1653

```

gaattcgcg cgcgctcgac ctatgttgct tgtctgaata acataataat atatagcaat 60
aactttttca ttgatttgaa taaatctatt gcatagaaat aggtgcacta ttgtagtgg 120
cccagacttt atttaaagaa aagcagttta aaatagattc atcacatatt tagttttaaa 180
tcccgaattc agttttcttt gtttatagca atcaaattat taaatatatc ctattatact 240
atttttaatc cctattccc aaaagataag ggaatttgaa agactgtgga aaatgatttt 300
aggacgggca tacctcgag                                     319

```

&lt;210&gt; 1654

&lt;211&gt; 319

&lt;212&gt; DNA

<213> Homo sapiens

<400> 1654

```
gaattcgcgg ccgcgtcgac tgccaatggt ccacgttgtt ggaatcatgg cactggttgc 60
agcatacctc aactttgtaa gtcagatgat agctgtccct gcattttgcc agcatgttag 120
caagggttatt gaaattcgaa ctatggaagc cccttatttt ctaccagagc atatcttcag 180
agataagtgc atgcttccaa aatctttaga gaagcatgaa aaagatttgt actttctgac 240
caacaagatt gcagagtcgc taggtggaag tggatatagt gttgagagat tgtcagttcc 300
gtatgtacca ctactcgag                                     319
```

<210> 1655

<211> 233

<212> DNA

<213> Homo sapiens

<400> 1655

```
gaattcgcgg ccgcgtcgac aggtttctga gacatctttg gtttctaata tcttccatgt 60
caacacggat gatcacaggg tctatggtac cggtgcttca ggtgatatcc aggggttctc 120
ctatgtcttt tgaagattct agtcgaatca tcccactctt ttatcttttt agtccttgt 180
ttagtcattc actaatcttc atacatgata acgaattcta cggatgatctc gag       233
```

<210> 1656

<211> 585

<212> DNA

<213> Homo sapiens

<400> 1656

```
gaattcgcgg ccgcgtcgat ttagcctgga acagagcggc actcggcctg agcggctgta 60
tatccagggtg ttcttgaaga aggatgactc agtgggctac cgggctttgg tgcagacaga 120
ggatcatctg ctacttttcc tgcagcagtt ggcaggggaag gtggtgctgt ggagccgtga 180
ggcgtccctg gcagaagtgg tgtgcctaga gatggtggac ctccccctga ctggggcaca 240
ggccgagctg gaaggagaat ttggcaaaaa ggcagatggc ttgctgggga tgttcttgaa 300
acgcctctcg tctcagctta tcctgctgca agcatggact tcccactctt ggaaaatggt 360
ttatgatgct cggaagcccc ggagtcagat taagaatgag atcaacattg acaccctggc 420
cagagatgaa ttcaacctcc agaagatgat ggtgatggta acagcctcag gcaagctttt 480
tggcattgag agcagctctg gcaccatcct gtggaaacag tatctacca atgtcaagcc 540
agactctccc tttaaactga tgggtccagag aactactagc tcgag       585
```

<210> 1657

<211> 340

<212> DNA

<213> Homo sapiens

<400> 1657

```
gaattcgcgg ccgcgtcgac tcatattggt ccccatgga cagcttttgc tctetaatac 60
catacactca gtgcagggtc tgaatgtccc cccaaactca tatgttgaa tccaaatccc 120
caagggtgtg gtattagatg atgtagcctt tgggaaggaa ttaggggtgt gccctcatga 180
atgggatttg tgtcattata aaacaagccc aaagaaattt ggtcaccctc tcctttaagc 240
gaggtcatgg caaaaagacg ctgtatatga accagaaaat gggctctcac tagacaccaa 300
atgctgggtg cttgttcttg gatttcccag cccactcgag                                     340
```

<210> 1658

<211> 312

<212> DNA

<213> Homo sapiens

<400> 1658

```
gaattcgcgg ccgcgtcgac agcacacctc aaactaacac agtccctatc aaacctttga 60
tcagtactcc tctgttttca tcacagccaa aggttagtac tccagtagtt aagcaaggac 120
cagtgtcaca gtcagccaca cagcagcctg taactgctga caagcagcaa ggtcatgaac 180
```

ctgtctctcc tcgaagtctt cagcgctcaa gccagagaag tccatcacct ggtcccaatc 240  
 atacttctaa tagtagtaat gcatcaaatg caacagttgt accacagaat tcttctgccc 300  
 gatgccctcg ag 312

<210> 1659  
 <211> 219  
 <212> DNA  
 <213> Homo sapiens

<400> 1659  
 gaattcgcgg ccgcgctgac gctactggct caaattcagg ttctggcgct aaatagcgac 60  
 atttccagtt tctcttaaaa accgtgtttg gtttcagttg ggataggctt gttttgtctg 120  
 ttgaaaatgt ttctagtttt ttttctttca tttttctctc attccatttc tgccttaact 180  
 ttagtttgtt cacaggagag caaagctgac aatctcgag 219

<210> 1660  
 <211> 129  
 <212> DNA  
 <213> Homo sapiens

<400> 1660  
 gaattcgcgg ccgcgctgac agctactaaa tctggcttaa tagtcaagac catcgcat 60  
 gaagttctaa tttttattat ttagttcata actaaaatga tttccttctg gaataaactt 120  
 gtactcgag 129

<210> 1661  
 <211> 245  
 <212> DNA  
 <213> Homo sapiens

<400> 1661  
 gaattcgcgg ccgcgctgac gttatgtgcc cagaagatct gagggtttca ttagtaattg 60  
 gaattctcct ctggaatctg actatcccag tggaaaaggg agatcatccc ggcattctgga 120  
 tcctccctgc acatttgatt ccacttgaa aactttggtg ctgcctttcg aggacagagg 180  
 ccgagggttg gctctctcca acaggcagtt acagcttgaa ttctgcttct tcccaagac 240  
 tcgag 245

<210> 1662  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 1662  
 gaattcgcgg ccgcgctgac atgtgtgaag ctttcttcca gcaagaagca aaagaaaag 60  
 aaagagctga acccagagca aaagtcaaaa gagaagctga aaaggagaca tgcgatgaat 120  
 ttcggagact ttgcaaaa ggaaaacttt tctgcacaag agaaaatgat cctgtgcgtg 180  
 gccagatgg caagacccat ggcaacaagt gtgcatgtg taaggcagtc ttccagaaag 240  
 aaaatgagga aagaaagaga ctcgag 266

<210> 1663  
 <211> 252  
 <212> DNA  
 <213> Homo sapiens

<400> 1663  
 gaattcgcgg ccgcgctgac gaaaaatttc tctttcacag tctcagctct agacaattgt 60  
 tatcttgttg gatgtgtgcc tcatgttgcc agaattgtcg attttacaag ggaagccaga 120  
 aatctgggtt ttcagataaa ttttttact atttttattt tatttttta ttttttgaga 180  
 tggagtttcg ctcttgttgc ccaaggcgga gtgcaatggc gcaatctcag ctaccacaa 240  
 cccccactcg ag 252

<210> 1664  
 <211> 335  
 <212> DNA  
 <213> Homo sapiens

<400> 1664  
 gaattcgcgg ccgcgctcgac ctgaaatggc tgtctgtcat gcttgccatt tttatgaaac 60  
 actttattgc aggtcagcta ttattgcacg tgctacttca agtcaactggc tcaggctggg 120  
 gtcattgtgtg gtttgcctgca aacggcagcc tgctttgcag tgtgagctct tcctggaaac 180  
 agcagtcctct tgtagctgat gccacatcag ctttaagtca ttaggaagat attctaggcc 240  
 ccttggtgct tcagccatca gtctataaat cacacaacac taattttcca tcaagtaaca 300  
 gcttaaaaca gaacactgtc aaaccacaac tcgag 335

<210> 1665  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<400> 1665  
 gaattcgcgg ccgcgctcgac ctccagatctc ttaatggaaa gctttgatat atttcatgtg 60  
 tgttttttaa tagcattcaa tgtatgttta aatataaggag tgctctgtga gtggctcccg 120  
 gggagcagcc ggaagtgttg tactcggctg tctatttgtt gtgggagagt cttctgtgtg 180  
 actgtggatc tcatttttat gaggactgca tgcaaggatt gcctctcgag 230

<210> 1666  
 <211> 260  
 <212> DNA  
 <213> Homo sapiens

<400> 1666  
 gaattcgcgg ccgcgctcgac ccccttttat catttgccac agaaggtgc tgtctccctt 60  
 ctgatttggg gggcaggtat tgtttttgag ccagtattta acagagtttt ttaatctata 120  
 agattttttt tgaatctatt tcatttgtgtt tgtttttcat gttggaacaa tctctctgga 180  
 agtgcctctt cttgtggctt ttacaacttc atttctttct ggggtcacct gtgatgggct 240  
 ttgatgtggg ggagctcgag 260

<210> 1667  
 <211> 202  
 <212> DNA  
 <213> Homo sapiens

<400> 1667  
 gaattcgcgg ccgcgctcgac caccgtcaat gaaagtgtct gacctttctg cctctgcctc 60  
 cttactccta gcctgccggg atgggaccaa tgcccaccag gatcttgtcc cctccatgtc 120  
 accgaactgg tctgtgtcga gcttccacct gacctgcgac ctcagcagcc aggcacatgc 180  
 tgctctctcc tcctccctcg ag 202

<210> 1668  
 <211> 275  
 <212> DNA  
 <213> Homo sapiens

<400> 1668  
 gaattcgcgg ccgcgctcgac atttgatagt tgattttcat atgtctttta ccttttaaaa 60  
 tcctccattt cattcattgc tgtcttttgt gttgatattt aaaattaatc tatttttatt 120  
 tcttttaaaa atttttctcc taatctctgt gttggcaat tttgtgtttt tttttttttt 180  
 ttgtaatgaa atgttttgat tctattctca tttcttttgt ggctatttta aagatattta 240  
 gtattttctt tgtggttacc atgggggaac tcgag 275

<210> 1669

&lt;211&gt; 286

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1669

```

gaattcgcgg ccgcgtcgac cccattcatt ttattcttct ttaaataaat atctaatacat 60
gttatttccc tgcttcaaaa actttctaat tatttccctg ttgtcttcaa gatcagacca 120
aacttcccag caacactctt caaaatctga ttccagcctc ctggtacagt gtcattctctc 180
ctcagcacac tccagggtccc tgacacacga gccagtgttt ctctatttcc cattgcctat 240
aggattcctc cccacccatg acttggtccc ctgcacctgc ctcgag 286

```

&lt;210&gt; 1670

&lt;211&gt; 290

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1670

```

gaattcgcgg ccgcgtcgac caaaacatct gcacgacagc tacgggcagt tcatcaacac 60
aggagatctt gaataataat caaggattaa ttaagttaa agcgtatcac attttgtacc 120
agtgtcagaa tctgggggag gaagaacaat taaaaaagaa ttagggtttt ttattggtaa 180
atccaaatcc attcctaaat caaatgatga aaatatattg cgttggttaa actctaacc 240
atttaatatg tgctgtctc ttcaaaacac taggaagcac cccactcgag 290

```

&lt;210&gt; 1671

&lt;211&gt; 240

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1671

```

gaattcgcgg ccgcgtcgac ggtggtagaa gtaacctgaa atagagatac atttaaatat 60
ctgagttagt gatttcagca aaggagagag accctgtgtt actattttag gagtgtctct 120
gattgtgtga acccgttgaa tacaccactt actaaccgag cccggccatt ttgtctcagat 180
tattcagagc tctcaggccc attcagaatg aaattcaaaa tctttaccat gacgtctcgag 240

```

&lt;210&gt; 1672

&lt;211&gt; 274

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1672

```

gaattcgcgg ccgcgtcgac cttagctgtt aaaacttcta gattgaaatt tgacagccag 60
ggttacatat tggggacttt taaagtgtct ttccaaagag atttcattaa ccgttttagat 120
tagaatatct ttcccaattg ttacagtgc atatatgctg caatatttaa caactggagt 180
attagccaca tgggttattt tttcaatctg tgttttgaat ttttttattg tgtgttattt 240
aaaatattac atatgcagcc gggagaacct cgag 274

```

&lt;210&gt; 1673

&lt;211&gt; 239

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1673

```

gaattcgcgg ccgcgtcgac tggaatatca aattttcatt tctttttcta acacttgagc 60
tttctacttg acacaggcaa gaaatagagt ggagctttat tgtagcctct gctttcagaa 120
acaggacata atattagttc atttccaagg attgggacat ctaatattag ttaattctaa 180
ggatttttaa tttgatgttt tcagtgtttc atattcacct tctagtgtat agtctcgag 239

```

&lt;210&gt; 1674

&lt;211&gt; 297

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (22)..(24)

<400> 1674

```
gaattcgcg cgcgctcgac cnnnaaacg tgcattgaat tcataccttg tctcagatct 60
ctcctggtag cccttcccc cgcctttaga taatccatct caattcctca tgctaattga 120
ggagctatgg ctgcaaggca ccttccagga tttcacacct acacaaatct cctttttctc 180
cttttgctt ctctgcttat gggatattct gaggccccac ccccaatcac tgacagctgg 240
gcccccttca tcagcctcac acaccacgta ttaagtcagt cacaatctcc cctcgag 297
```

<210> 1675

<211> 260

<212> DNA

<213> Homo sapiens

<400> 1675

```
gaattcgcg cgcgctcgac tgaaactata tcattttatt tttcatttat cactgctggt 60
gtgttttgtt taattttaaa ctgtttccct ctacttgagt ataagtctca gaaggcagga 120
gcttgctatc ctattcacct aaggtaaggg taccattatt taaaacagta ccttaagtct 180
aaaatatgaa cagttcagca ataagagcta aataatagtt taacaaaatg ttatcacata 240
tctacacaat agcgctcgag 260
```

<210> 1676

<211> 376

<212> DNA

<213> Homo sapiens

<400> 1676

```
gaattcgcg cgcgctcgac gcgtgatcag aatgggtgtct ggacggttct acttgctctg 60
cctgctgctg gggcccttgg gctctatgtg catcctcttc actatctact ggatgcagta 120
ctggcggtgt ggctttgctt ggaatggcag catctacatg ttcaactggc acccagtgct 180
tatgggtgct ggcatgggtg tattctatgg aggtgcgtca ctgggtgtacc gcctgcccc 240
gtcgtgggtg gggcccaaac tgccctggaa actcctccat gcagcgctgc acctgatggc 300
cttcgtcttc actgttgttg ggctgggtgc tgtctttacg tttcacaacc atggaaggaa 360
tgccaacat ctcgag 376
```

<210> 1677

<211> 208

<212> DNA

<213> Homo sapiens

<400> 1677

```
gaattcgcg cgcgctcgac ctttggtgct agtccaaatc ctctgatttt ggtttgattt 60
gtcctagcag atccctgaac ttcagagagt attgccattt ggattcatgg agttggcgaa 120
ctgctacact gctaccttgt gtatggctct aagctttgat cctaatgact ggttgatgat 180
catgataata ttagagccag tgcctcgag 208
```

<210> 1678

<211> 363

<212> DNA

<213> Homo sapiens

<400> 1678

```
gaattcgcg cgcgctcgac actggcagtt caaaaactag tacagaaagt tggatttttt 60
ggaatttttg cctgtgcttc aattccaaat cttttatttg atctggctgg aataacgtgt 120
ggacactttc tggtagcttt ttggaccttc tttggtgcaa ccctaatttg aaaagcaata 180
ataaaaaatc atatccagaa aatttttgcct ataataacat tcagcaagca catagtggag 240
caaatgggtg ctttcatttg tgctgtccc ggcataggtc catctctgca gaagccattt 300
```

caggagtacc tggaggctca acggcagaag cttcaccaca aaagcgaaat gggcacactc 360  
gag 363

<210> 1679

<211> 260

<212> DNA

<213> Homo sapiens

<400> 1679

gaattcgcgg ccgcgtcgac cgctcattga attctagacc agcctgggga aacatagtga 60  
gacctatct ctactgaaaa aaaaagagag agagaaagct tcgagaggag atgagacat 120  
tctttatttc ttattttctt ctttctggtg actgccagct cgctcagatt cctccacctt 180  
ccttgctggg gtgctgcctt atcagcccca ccctttctat tcctagaagt gaaagctggc 240  
atcttcccca caacctcgag 260

<210> 1680

<211> 377

<212> DNA

<213> Homo sapiens

<400> 1680

gaattcgcgg ccgcgtcgac gctctatcta tgaatctgat aaaggccttc cttcaactgg 60  
agacaatttg ggatgttgca aaacaagggt tgggaagccc ttctatggat cggttttgtg 120  
tccaagtctg tccctgccaa aagccatcaa aagtctccat caccctggg ctccagtctg 180  
ctacccccag acttggcagc tgggatctct ccttcctggt tcatagttct cattcccacc 240  
cctcagcgat ggagtttagag ttccaggcgc acgtggtgaa cgagattgtg agtgtcaaga 300  
gggaatacgt agtttatgat ctgaagaccc aagtcccacc ccagcagctg gtgcccaggg 360  
gtgatggaga actcgag 377

<210> 1681

<211> 237

<212> DNA

<213> Homo sapiens

<400> 1681

gaattcgcgg ccgcgtcgac cacttccaga atgtccatca ggttgatcat gatgtttttg 60  
tgtgtcttct tgtacttccc gacacgtagt gagacagtga gccagccagg gcgccccgtg 120  
cacatgaagg tcttcttacc ctgtctcttc cattcccga cctgcttctg gatgtcccgc 180  
acgcgctgct cgtgcaggcg cggagcgctg ctgagcttga acaccacca gctcgag 237

<210> 1682

<211> 275

<212> DNA

<213> Homo sapiens

<400> 1682

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gggtccact ctgcaggcaa acccccagtt cattgtggat ggagctaccc gcacagacat 180  
ctgccaggga gcaatggggg actgctggct cttggcgcc atcgcttccc tcaactctcaa 240  
cgacaccctc ctgcaccgag ggtatgttcc tcgag 275

<210> 1683

<211> 205

<212> DNA

<213> Homo sapiens

<400> 1683

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gatgttcttg tatgcacat ccataaaaa ctatggagaa gaccagtcca atggcgatct 120

gggtgtccat agtggggaag aactccagct caccaccact atcacccatg tggacggacc 180  
 cactgagatc tacaagcgac tcgag 205

<210> 1684

<211> 274

<212> DNA

<213> Homo sapiens

<400> 1684

gaattcgcgg ccgcgtcgac ctgtgacagg atcaatgttt atggcatggt gccccagac 60  
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 gatgaatgta caatgtacct ctcccatgag cgaggacgca agggcagtca tcaccgcttt 180  
 atcacagaga aacgagtctt taagaactgg gcacggacat tcaatattca cttttttcaa 240  
 ccagactgga aaccagaatc acttgcaact cgag 274

<210> 1685

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1685

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 ctccccacga ggactctcct tagcgggtgtg gacttcggcc accctgtctc tgctcctggc 180  
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<210> 1686

<211> 197

<212> DNA

<213> Homo sapiens

<400> 1686

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 accaaataat ttaaaagcat ttttaataga cttttaaaaa tatgctaata aaatctagtt 180  
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<210> 1687

<211> 328

<212> DNA

<213> Homo sapiens

<400> 1687

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 gagctcccg agcgtggacc tccagacacg gatcatggag ctggaaggca gggtcgcgag 180  
 ggcggctgca gagagaggcg ccgtggagct gaagaagaac gagttccagg gagagctgga 240  
 gaagcagcgg gagcagcttg acaaaatcca gtccagccac aacttccagc tggagagcgt 300  
 caacaagctg taccaggacg atctcgag 328

<210> 1688

<211> 379

<212> DNA

<213> Homo sapiens

<400> 1688

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 ctctgccacg ttactacagc caaccgacct agccttgatg cccacttggg aggcagaaag 180  
 caccggcacc tggtagaact acgagctgcg agaaaggccc agggacttcg aagtgtgttt 240

gtcagtggct ttcccagga tgtggattct gctcagctct ctgagtactt cctagcattt 300  
 ggacctgtgg ccagtgttgt catggacaag gacaaggag tggttgccat tgtggagatg 360  
 ggggacgtgg gtgctcgag 379

<210> 1689

<211> 406

<212> DNA

<213> Homo sapiens

<400> 1689

gaattcgagg ccgcgtcgac ctttaagcaa acctgaacct acctatgtgt cccccctg 60  
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 ctgtaccccc acccagggcc cttctagtac cccctctcca ttcaaacag atgggggtcc 180  
 ttggacacca tcccccaagc acagtgggaa gacaactcca gacataatta aagactggcc 240  
 caggaggaaag agggcggtgg gctgtggcgc cggtcctct tccgggaggg gcgaggtcgg 300  
 tgcagacctt cctggggagcc tgtcactgct tgagacagag ggcaaggacc acggccttga 360  
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<210> 1690

<211> 221

<212> DNA

<213> Homo sapiens

<400> 1690

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 atattgaaaa acttatgaga ttttcaaaca tgcacaaaac aggggaacagt ataattaacc 180  
 cccatattgt cattacacat attcaagagt caactctcga g 221

<210> 1691

<211> 320

<212> DNA

<213> Homo sapiens

<400> 1691

gaattcgagg ccgcgtcgac gttttagaaa acttgtttat ttgcctgtgt gcggtagggg 60  
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 ttcagaacag tgttcatatc tcatttgcac agcattccat ggtacacagg aaattgtatc 180  
 tagtttcgtt ttttgttttg ggggttttt tttggtgttt gtttgagaca ggtctcact 240  
 ctgttgccca ggctgttgtg cagtgtcatg atcttggtct acagaaatct ctgccccctg 300  
 aactcaaagg atcactcgag 320

<210> 1692

<211> 226

<212> DNA

<213> Homo sapiens

<400> 1692

gaattcgagg ccgcgtcgac agcctccttt gtgattcatt ctttctaca tgattggtgt 60  
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 atttattacc aactcctct gtggatctat agactcctct acccagcact gtaatggaca 180  
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<210> 1693

<211> 196

<212> DNA

<213> Homo sapiens

<400> 1693

gaattcgagg ccgcgtcgac actcacacct atatatgaca gtcgtggggc agaaaggact 60

tagacttttg tcgggtcttt ccaaagtatt caacttcatt tttattaaag aaaaaatttt 120  
 ttttctcctt tatatttcat tagcttactt gatattctat caaattacct atgtcaataa 180  
 caagcacaat ctgcag 196

<210> 1694  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 1694  
 gaattcgcgg ccgcgtcgac gagagaaatg ccatcatgct tactgctctt ttggattctt 60  
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 ccacatgtgc acacacgggt gtcggtgcaa ctcaccagca ggtgtgcagt aggcaagctt 180  
 gaaggTggcc catgcttctc tggtgtcaca caacacctcg ag 222

<210> 1695  
 <211> 233  
 <212> DNA  
 <213> Homo sapiens

<400> 1695  
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 aaaactttat gtttgccttt ttgtgtgtct gtaaagggtt atttgccatt ctgtgtcagg 180  
 ttttggtgtt tagttgcatt ctacttactg cgttttgcca agcaCaactc gag 233

<210> 1696  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<400> 1696  
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 tacaattttt gagcaagtag tagagagatt ttaaagtata acgtgctaaa ctttcagttt 120  
 gtaacctggt cttgttgctg ctgctgttag ctatgggaag tatcagggga ctaagtatta 180  
 ttttatttat ttgtttgttt atttctatgg gttttcgggg ggcactcgag 230

<210> 1697  
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 <212> DNA  
 <213> Homo sapiens

<400> 1697  
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 ggTcactgtg ccctaagggg ttTgaccagg gaaccacggg ctgtcccttg aggtgcctgg 120  
 acagggttaag ggggtgcttc cagcctccta acccaaaagg agctgttcca ggctccaggg 180  
 gaaaaagggtg tggccaggct gctcctcgag 210

<210> 1698  
 <211> 179  
 <212> DNA  
 <213> Homo sapiens

<400> 1698  
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 aataaataaa acattcaatg tttttctcct tttctctctt attacttctt tcctttggca 120  
 ttttcaattt gaaatgcttt cctttgggtg ttggttttat tctcccccaa tccctcgag 179

<210> 1699  
 <211> 224  
 <212> DNA

<213> Homo sapiens

<400> 1699

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gaattcggcc aaagaggcct aaaatcatct aacacaaaac ctatactata ctacagtgtc 60
taatatttca cagtaattta ttgaacactg tactgacaat gaaaaacaga gtggttggtt 120
gcgtacttga agtacagttt ctgctgaata catgttgctt ttgcatcttg gcaaagtcaa 180
aaactctaag tcaaacaatc ataaatcaaa ccatgacact cgag 224
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<210> 1700

<211> 202

<212> DNA

<213> Homo sapiens

<400> 1700

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gaattcggcc aaagaggcct aggacagggt tttcatggaa acagtgaagt aaatgcaata 60
ctgtctccgc gatcagaaag tggaggcctt ggtgtgagca tggtagaata tgtattaagt 120
tcttctctcg ctgataaatt ggattctcga ttttaggaagg gaaatttttg cactagagat 180
gctgaaactg atgaacctcg ag 202
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<210> 1701

<211> 106

<212> DNA

<213> Homo sapiens

<400> 1701

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gaattcggcc aaagaggcct acacagtgat tccgatgtgg agccagccct ggaagcctct 60
ccgtggctta aggacccccg ctgctttctg gcccgaattg ctcgag 106
```

<210> 1702

<211> 327

<212> DNA

<213> Homo sapiens

<400> 1702

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gaattcggcc aaagaggcct agtgtaaatg caacaaagaa aaaggcccta agcttctcta 60
cttattagat atatttttgg caattgattt aacttttgcc aaccctcagt tttctaattc 120
atgaaatgat agtgataagt tctgcatata gggttgttac gaaaattaaa tgagataatg 180
tgtaaatcaa ttagcacagt gtctcacacc tagaatgcac tcaagaaata atagccacta 240
ttagattagt catagttata gaatatcatc aagggcctac atttgtataa aacactgcct 300
ttacacacaa tatccacaag tctcgag 327
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<210> 1703

<211> 167

<212> DNA

<213> Homo sapiens

<400> 1703

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gaattcggcc aaagaggcct actctactcc ctcatccgcc cagtactatg caaccatcaa 60
tctgtctcta tggtagtaga ttgatactgc cacctatagc catttgcac attgtatatt 120
ctattcagat tctgttagtc aatttagata agaccaagga actcgag 167
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<210> 1704

<211> 316

<212> DNA

<213> Homo sapiens

<400> 1704

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gaattcggcc aaagaggcct actttgacaa aattcaacaa ctcttcatgc taaaaactct 60
ccatctggta tcctttctct tcagcctaac ggtatcatct gacagttctt gtagttagg 120
tttgcaggca acaaattcta taggcctttg ttctcttgaa aatatcttta tttcatcctc 180
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agatacctt tttctgggta tggattcctg ggtttgcagg gtattccac ttgtccgagt 240  
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 agctgtcaca ctcgag 316

<210> 1705  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<400> 1705  
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 tgtccattta ttctctttg gtgatgttaa ttttgattac cctgtcaaga tgttgtgtgg 180  
 tttttccctt ctataattac tgcctcttcc cctctccctt gagacgaata agcaatctgg 240  
 ggtgcatttt aagaccatac aaatacaata atactatggc caccctcttc ctccaacca 300  
 gtaagctcga g 311

<210> 1706  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<400> 1706  
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 aaagaacaat atgaagatgt gggctctagt cactgttgcg ttactaagtt tctatctgtt 180  
 acctagaata agtcattctt taaggtctca gatttttccc actacgaaac tcgag 235

<210> 1707  
 <211> 232  
 <212> DNA  
 <213> Homo sapiens

<400> 1707  
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 tgtgtttctg ttatggctgg ctctctgtca ccccatgaa aatacggcag tatcagagat 180  
 aagtaatcag gtaatatcag agataagtaa tccatcgaaa gcccaactcg ag 232

<210> 1708  
 <211> 339  
 <212> DNA  
 <213> Homo sapiens

<400> 1708  
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 ggtggtattt ggttcccccc cagaaataaa tctctgttaa atgattcttt ataaagcagt 120  
 ccacacattt atcataccac agtgatctga acccatttag ggaattataa gctacagttg 180  
 gtcagtgtgc aggcctagca actctggcct tgtcacattg catctctctc cactccccgt 240  
 gctaccacta atccttcagg actgagattc aaggctttgc tagtaagagg cttggaaata 300  
 atcatataaa acataatagt gtggcatggc aagctcgag 339

<210> 1709  
 <211> 188  
 <212> DNA  
 <213> Homo sapiens

<400> 1709  
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 ccaggagaat gtttcatctt cagacagtga tacagtttca ctttgttctt ttccatcttt 120

atcttttttga gacctcgag gccttgagct tgtcaccatc tccctcagac agaccagtgc 180  
tcctcgag 188

<210> 1710

<211> 192

<212> DNA

<213> Homo sapiens

<400> 1710

gaattcggcc aaagaggcct actcgagttt tcttggtttc tttctctctc tgtatgctac 60  
tttcaatttt tctttctttc tttattttga gacagaatct ggctctgtca ctcagggtgg 120  
agtgcctgtg catgatctca aaaacaaaag aaataaaaaa taaaaataaa aggttcctgt 180  
gagcaactcg ag 192

<210> 1711

<211> 228

<212> DNA

<213> Homo sapiens

<400> 1711

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gtgggtgatta gtcggttgtt gatgagatat ttgggtctgt acctgttggc ttcattttctc 120  
ttattaccct gttgccaggc caccgggtcc ggcccagcct tgattcttcg ggaatcactt 180  
ctccctcgcc gcgcctgtta ctgcctccac ggatcactca tccctcgag 228

<210> 1712

<211> 212

<212> DNA

<213> Homo sapiens

<400> 1712

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atcaattagc tgtaaaccatg cttattttta aatgccattc aaacgcctct aatagaatcc 120  
tgtggcaaa gtaagaatcc ttttacatac acagtacaga tgtatcaaaa ccatgtactg 180  
ttttgtttac acacatgaca gaaccctcg ag 212

<210> 1713

<211> 230

<212> DNA

<213> Homo sapiens

<400> 1713

gaattcggcc aaagaggcct aggtctgtgc agtaccagc aagattccag tctcttctc 60  
acacatatcg acttagaatg gtcattgtat tttcgcatct gaatcctcta cttatttttt 120  
tcttcagatc ttccagttag tgttctctct cgtttttatc ttaccttctt tttggcacia 180  
aagctgagac gctatcctgt tgctccaaat caccagtcac gtttctcgag 230

<210> 1714

<211> 272

<212> DNA

<213> Homo sapiens

<400> 1714

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aaattggtag ctttcatttg cttaaaaatt tttggcatat gcagataatg ttctcatcag 120  
tagtaagaat ctcagggtta tgcttatccc ccaatggagg tatgacatat aatcttttct 180  
gcctttactt atcaattcac caaggagctg ttttctctgc atctaggcca tcatactgcc 240  
aggctgggta tgactcagaa gcctgcctcg ag 272

<210> 1715

<211> 128  
<212> DNA  
<213> Homo sapiens

<400> 1715  
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tataaagaca aaccgattgt agccaaatga caccatattt aataaaattt agtctgaagt 120  
gtctcgag 128

<210> 1716  
<211> 268  
<212> DNA  
<213> Homo sapiens

<400> 1716  
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cattcaccca ataaattttt ttcttctttt ttccacagag ttttgctctg tctcccaggc 120  
aggagtgcag tggcgggatc ttggctcgtc gcaacctctg ccttccaggt tcaatagagt 180  
ctctgcctc agcctcccaa gtagctggga ttacaggctc atgccaccat gcccggctaa 240  
ttttcacatt tttagaagag gtctcgag 268

<210> 1717  
<211> 228  
<212> DNA  
<213> Homo sapiens

<400> 1717  
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aacagtcaaa ggaggacagg aggggagcca gctggttaga gggagcagca accgtgtgtg 180  
gaccaagcgc cttttttgtt ttatagacgt gtcttcctaa acctcgag 228

<210> 1718  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 1718  
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ctcgattgtt cacctgggct gcagtgcggt ggcgcggtct tggctcactg cggcctctgc 180  
ctcccagggt cgggcgattc tcttgggttcg gcctcctcag tagctgggat tgcagggtgt 240  
caccacaaca ccaggcaact cgag 264

<210> 1719  
<211> 214  
<212> DNA  
<213> Homo sapiens

<400> 1719  
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tttattccct tgactcaaga cagctaactt cattttcaga actgttttaa acctttgtgt 180  
gctggtttat aaaataatgc gtgtaatcct cgag 214

<210> 1720  
<211> 204  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 1720

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gaattcggcc aaagaggcct acccagctac atttgtgata ctttcagtgc taagaaaatc 60
tatattctgt agctttgaag ttatttaaca gttaagtact atttgctggt ttattctgat 120
tttgtcttaa atgacaaata ttttattcat cctttctctt caaacattat ttaacaaatg 180
tacgttttaa tgtttgctct cgag                                     204

```

&lt;210&gt; 1721

&lt;211&gt; 234

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1721

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gaattcggcc aaagaggcct aggctgtggt atgaagattt tgtttgtttg tttttgttt 60
tttgtttttt ttgagatgga gtcttgctct gtcacccagg ctggagtgc gtggcgtgat 120
ctcagctcgc tgcaagctcc gtctctcagg ttcacgccat tctctgcct cagcctcccg 180
agtagctggg actacaggtt acaggcgccc gccactatac ccggctcact cgag       234

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&lt;210&gt; 1722

&lt;211&gt; 217

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1722

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gaattcggcc aaagaggcct atgattgcaa aggaataac taagccaatc taaatttcac 60
tctagaatta gctaaagttt tgattaaaag gaggagttaa ttttgaatta aattagtaaa 120
gagagtgaga aatctgatag gagttaacat caacacatac accacaggct ttggttgcaa 180
gtaggccatg ctaacaattc tactgggatg tctcgag                             217

```

&lt;210&gt; 1723

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1723

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gaattcggcc aaagaggcct aagttttcaa ccattattgc tttaaatatt tttcttctc 60
ctttatcttt ctcactttt tctgtactc tttttatatg tatgttggtg cactcactta 120
aagggtatct acatttctct gaggtccgt tcatttttgt ttttattggt gttctatctt 180
ctgtctgttc tttgggtttt gtaatcgta ttgattcact caatatttct tctgccagtc 240
atctcgag                                     248

```

&lt;210&gt; 1724

&lt;211&gt; 228

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1724

```

gaattcggcc aaagaggcct aagcatattg tcagaaggaa ggatgggtgca aattagcttt 60
ttatcttcta gcattttttt actacctata tggcatgata tatgttttgg tgagctctta 120
gaacaacaca cagaagaatt ggtccagtta agtgcatac aaaagccacc aaatgaaggg 180
attctatcca gcaagatcct gtccaagagt agcctgaggt gtctcgag               228

```

&lt;210&gt; 1725

&lt;211&gt; 249

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1725

```

gaattcggcc aaagaggcct agttgagttt gtcattaaaa tcataaacca gctgcggtta 60
cagacaagcc tttggctggg gagttttaag cctcggtaac tgctataaaa ctgacctcc 120
agttaggata gaatgtgttt ctttctggtt aaaaaaagga aaaaccatct aagaaaatat 180

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atatgtatgt atgtgtgtat acagtggaat tcaaaggacc aaagcaaaat ctgaacagga 240  
ttcctcgag 249

<210> 1726

<211> 436

<212> DNA

<213> Homo sapiens

<400> 1726

agaattcggc caaagagcct actggcatgt ctgagcataa gcctgacagt ctacttttcc 60  
agcttttact tttcctttaa tcctcctagc caagagctca aattctggag caaaattctg 120  
gcaagggtcca caccaaggag catagaaatc aatcacccaa tgatttttcc cttgtagaac 180  
tttttctactg aaagtctgag gtgttagatc tgtggatact tgaggtaaaa atcctagacc 240  
ccagattctc agggaataag catcctatt ccaaccattg taactgtgat actgataagc 300  
tttatttgat tttgggggaa aaaatcttat ctccagggtat ctttgaacgt tttcctgggc 360  
acaaaaagaa tgatactggt ggcaatctat actgccacg ttgatcagtc cagttaatgt 420  
ccgggccggt ctcgag 436

<210> 1727

<211> 367

<212> DNA

<213> Homo sapiens

<400> 1727

gaattcggc aaagaggcct actgatacaa tcaagaagca gaacattccc atcccacaaa 60  
gatctcttat cttgcccttt tactgccgca caaattccct cttcctctcg ccccatcctt 120  
aacctctgac aaccactcat ctgctgtcga tttctgtaat tcagtcattt caagaatggt 180  
acataaatgg agttgtacag tatgtaacct tttgagactg gctctttttt cactgagcat 240  
aattctctgg agatttatct acattatctt atatatatcc atggattggt cctgtttatt 300  
cctgagtaat attccatatt atggatgtat cagtttgttt aactgttttag ctgttgaagg 360  
actcgag 367

<210> 1728

<211> 225

<212> DNA

<213> Homo sapiens

<400> 1728

gaattcggc cgcgctcgac cgattgaatt ctagaccctgc ctcgagcgag acttggttta 60  
aaaaaaaaaa aaaggtagcc ctttactatt agaccgattt cttccgcaat acagagcagt 120  
agctgagaat cattgtgtgc tatgtggcat tttctgctac ttgcttctgc catgccatgc 180  
cttttctcat ccttgagacc agatcaccat ccaaaaacac tcgag 225

<210> 1729

<211> 352

<212> DNA

<213> Homo sapiens

<400> 1729

gaattcggc cgcgctcgac cccaggaca ctagagccac tttagtctaa ttttctgctc 60  
tttaattatt ttaacactcc agaggaggac tggttttctc ctgtgttttt ttaatatatg 120  
gcaagtggaa cctctaatec accacctgt ttttcagcct aactcaggct tgtggtaaaa 180  
ttatcagttc cacttttctt tgcctgcatc tcaaatgcaa cacaggagaa cagctttccc 240  
ttgcaaatcc acaatgctgt taactatttg tcctttatta tacatttcat taaagttttc 300  
tattattgga tttctttcta cttctcccta cagttctgac cattcactcg ag 352

<210> 1730

<211> 145

<212> DNA

<213> Homo sapiens

<400> 1730  
 gaattcgcg cgcgctcgac ctcaaacttt ggtgtacata ccaatgatca tgttaaaata 60  
 cagcttggtt ggcctcactg cagcagtttc tgtctgttct tatccagtac tgccacctat 120  
 tgggcaagct cttcagaagc tcgag 145

<210> 1731  
 <211> 341  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (25)

<220>  
 <221> unsure  
 <222> (306)

<400> 1731  
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 ctaggcctat ttctgcatgg gtcggagagt gggcgggact gctttactga gttatagtga 180  
 atgtagtttt aacctaaagc cctcacatga ctaactctc atccatcaag aatgagctca 240  
 gctctcactt cccactcct caccctctg taaagtaacc tttctccaag gttatgcttc 300  
 aacagnata gctaacattt attaaattgt ggccctcga g 341

<210> 1732  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 1732  
 gaattcgcg cgcgctcgac tggctttgta tgcttttggt tagtttagaa cagatacaca 60  
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 gccatactca cgctgcagtg cataatggga aaattaggag cattaataag aaatttcagt 180  
 agtggttgta aggaaaataa gctacttact gagatctggt tcttctattg catgtttgct 240  
 tttgagggac agcttctgtc aaaagtgaat tcatcaccag aactgggcct gttaggaaga 300  
 atagggtttt atttactttt tatgtcaatt aacttcaaca aaaaggccac gctggctgct 360  
 gtcatgccat ctgggtatgc attaaacatt aatgatgatc agcatctcga g 411

<210> 1733  
 <211> 319  
 <212> DNA  
 <213> Homo sapiens

<400> 1733  
 gaattcgcg cgcgctcgac ggtccgggtg cttttctcat attgactcat attggacata 60  
 aattcatgcc cagcaaccct atccaaggag gaattttggt tggctctgga tcattttatc 120  
 ttatggaact caggatgctt tttttcttag gtactaacia accatcccat taatattcct 180  
 tctctagcat tactcttgat agggagtctt gtagttttgt agaaaagact gaagtaggcc 240  
 tgggtgtggt gctcacgcct gtaatccag cactttttgga ggccaagggt ggcagatccc 300  
 ttgagatcag gcgctcgag 319

<210> 1734  
 <211> 192  
 <212> DNA  
 <213> Homo sapiens

<400> 1734  
 gaattcgcg cgcgctcgac gccagacatg agttttgcaa gcattgcttt gttttgcttt 60

atattttaaag ccctttttctc caaaaaattc attccacttt catcttctga atcggagttg 120  
 gaatcagtca cagaattctc tgagggtcgg cgggactctg cttttttgtt ggttgctccc 180  
 ctggagctcg ag 192

<210> 1735

<211> 249

<212> DNA

<213> Homo sapiens

<400> 1735

gaattcgcgg ccgcgtcgac cctaaaccgt cgattgaatt ctagacctgc cctcagtgtc 60  
 tcccagtttc cttgctttct tttatttccc tcttgattgc tgcctcccca gttcttacca 120  
 gctctctgtc ccagtccttt cctgtcaaag atggcagact cctccaatgc caccgctccc 180  
 ctacccatct gcccgagtc ttccttctc tctccctccc tgetggctct tttggccatc 240  
 cccctcgag 249

<210> 1736

<211> 180

<212> DNA

<213> Homo sapiens

<400> 1736

gaattcgcgg ccgcgtcgac gagcatttgc aaagtcata aatattcttt gttttgtttg 60  
 ggggcagttg gttggttttt tgatgttttg tgtgtggggg caggacagg gtctcactct 120  
 gccaccagg atggaacgca tagctcattg cagcttcaac ctttaacccc cggactcgag 180

<210> 1737

<211> 282

<212> DNA

<213> Homo sapiens

<400> 1737

gaattcgcgg ccgcgtcgac ttgagtgttt actaactctg tgttttgctt acctggcttt 60  
 tcttcttga agttgcttaa ttttttttcc tccaagagga attattttaa aagacttttg 120  
 tctgtgacat aaccaagatt tattctgttt acctaaggaa cttattttct tttttgcaat 180  
 ttcatttatt ctgagtcact ttatttgtaa taagtgaaga attttaatac ttagaaataa 240  
 gttgtaaaaga aaataatgag aatcttacca tgcgtactcg ag 282

<210> 1738

<211> 290

<212> DNA

<213> Homo sapiens

<400> 1738

gaattcgcgg ccgcgtcgac gagaaaagtt tcagaaaacc tagattagag atgttggtgct 60  
 tatttttatt tttctttatc tcaactctgc cttcttccct ctcttccctt ctctctccc 120  
 actcccttct tacctctcca ctttggtttt ctacctcagc cctacttcc ttcctttctt 180  
 taattcttcc attctttctt cccttctcaa tagataagtt taataatagt ggttggtttg 240  
 ttgtagatgt ttcaggggga aaaaatttaa aagggtgcac agttctcgag 290

<210> 1739

<211> 356

<212> DNA

<213> Homo sapiens

<400> 1739

ggaattcgcg gccgcgtcga cagatttttt cctaaactga ggcaagaatt gagtctactt 60  
 ttttttgttt ttcttgagtc tctgtttacc tcaaatctag agacactctg cctcttagtg 120  
 gaaatttcct aaaggtcagg taatcagtta gtcattctaa ttcagaggcc aacagctata 180  
 atcaactgta gaagacctat ccaacacaaa ttcaaggagc tgatccaaag caaatgccca 240

cctccttggc aacagttggt acagctgtgt tccttttcac ttccttctct cctttactta 300  
aaccacattt attatccttc agttctggag gtcagaagtc cgacacaggt ctcgag 356

<210> 1740  
<211> 298  
<212> DNA  
<213> Homo sapiens

<400> 1740  
gaattcgcgg ccgcgtcgac tattcctggg tatggcactg tcctatgcca tctcttcacc 60  
actatttggg ctcttaagt ataaaaggcc acctctaagg aaatggcttc tgggtgttgg 120  
caacttaatc acagccgggt gctacatgct cttagggcct gtcccaatct tgcatattaa 180  
aagtcagctc tggctgctgg tgctgatatt agttgtaagt ggcctctctg ctggaatgag 240  
tataattcca actttcccg aaattctcag ttgtgcacat gaaaatgggt cactcgag 298

<210> 1741  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 1741  
gaattcgcgg ccgcgtcgac ccgtcgattg aattctagac ctgcctcgag ttttgccctt 60  
ggtctctgtc cacttggtga actattgtct gctttttcaa gatgcagctg ttgtgtcatc 120  
tcttctggat agtccttcca tactatctac acaagcaaat tgttgctgct ttccttgaaa 180  
accacacctc acctctctgt acacaccagg caagaacata ccgcacttac ttgttaccag 240  
gtctatctcc cctccccctc gag 263

<210> 1742  
<211> 328  
<212> DNA  
<213> Homo sapiens

<400> 1742  
gaattcgcgg ccgcgtcgac ctaccacata agaagatatt tatataacag ttctcagaat 60  
ccaactgttt tgcagttgaa attttctccc aagattccaa ttagtataaa attttaattt 120  
gctaagaagc atctcacata ataaataagc ctatcaagaa ggcaatttat attaatattag 180  
aataaactag actctgtgtc ctctgaatta aacaccaatg agcaccctaa agtttagact 240  
tccttgcttt tattacttat atctgtttat tttttatgat gcagtctctg agcctgttcc 300  
atttgaaact gaagctccca cactcgag 328

<210> 1743  
<211> 155  
<212> DNA  
<213> Homo sapiens

<400> 1743  
gaattcgcgg ccgcgtcgac gtctgttgaa aaagagaaga ggtttgcaaa taccctcatt 60  
agagtactat gcaagtgttg catcactatt tccaaatttc cagggccata atgagtatct 120  
tctttccact agctacttta acacaagccc tcgag 155

<210> 1744  
<211> 277  
<212> DNA  
<213> Homo sapiens

<400> 1744  
gaattcgcgg ccgcgtcgac gaagaatgca agtattctgg agtttgagaa atgttttttc 60  
tgcttttgtc atgaaatata cccttgaaca ccttccatt tggggggacg ttaaatacta 120  
taggcagaaa aatgaagata cgagccctgg catgcgagga ctgcgtggca gtgtgggacg 180  
cgtgcttgag cctcactttc ttctctggga gatggcggta ggccggggccg tggagagcag 240

tagtgggaca gaaggagctg agtgctggga gctcgag

277

<210> 1745

<211> 392

<212> DNA

<213> Homo sapiens

<400> 1745

gaattcgcg cgcgctcgac atgctttgtc ccaagccct gaatccctca aatctgacct 60  
tgtccctgc tgtggccacc actctctcct atttcattgg agtgctcct cctgagcctt 120  
tcagccagtg ccagggcagc tccttaatat ctgccccttc ccgtgaactc cctcttcttg 180  
ctctctcttc cctccagtgg cagaaacccc acctctgttg gccagtgctc tttgaagaga 240  
gtcctgagat gccctcggga gtttgggtag agcccttgca ggcattccaga gaacaactgg 300  
aatcaaggcc ctttgtgctt tctgggtccc aagcgctttt ggggcttgag gttctcttca 360  
ttagtggtgg atctgaagtg tttcctctcg ag 392

<210> 1746

<211> 432

<212> DNA

<213> Homo sapiens

<400> 1746

gaattcgcg cgcgctcgac ctaaaatgaga agactttcaa tagtaatgaa gaatccatgg 60  
cactctcttc accctcaaac acatggcagt cattcacata caggccccaa agccactgtt 120  
agtgctcgag tagctcctgt ggacattgga aagcccgagg agggcgtgga agaaatcagc 180  
tgccccccgg caggttctct ggggttttgt gcccaaggct cctggagccc taaaaacttt 240  
caaaagttaa ctccccacgt ccccatcctg cttgggtttc tggacttttc tgaggcaccc 300  
gcagaggggt ctcatgtctc ccttgagtgt aggggcagcc ctttaacctg gctccttgag 360  
tccttgcttt ttctgcttct gttgccttct tcctctcttc cctctctctc aatatctccc 420  
cccaaaactcg ag 432

<210> 1747

<211> 368

<212> DNA

<213> Homo sapiens

<400> 1747

gaattcgcg cgcgctcgac tgtgcttggt ggggtattact taagaaatca ttgccagac 60  
cgataccctg gagagtttcc ccagtgtttt attttagtca tttcatagtt tgagggtcta 120  
gatttttctc ttttaataat attttgattt gagttttgta tatggtgaga gataggagtc 180  
tagtttcatt cttctgcata tatatatcca gtttccaagc accatttatt gaagaaactg 240  
tcttttctgc catgtatgtt tttggcacct ttgtcaaaaa tgagttcact gtagggcgtg 300  
ggattttttt ctgggttctc ggttctattg ttctgtgtgc ctgtttttat gccagtacca 360  
cgctcgag 368

<210> 1748

<211> 302

<212> DNA

<213> Homo sapiens

<400> 1748

gaattcgcg cgcgctcgac gcatatacag cccttggtat ttttaattat agactaaaac 60  
tcttcttgac accacacatg tgtgttatgg catcactgat ctgctcaaga cagctatttg 120  
gatggctctt ttgcaaagta catcctgttg ctattgtgtt tgctatatta gcagcaatgt 180  
caatacaagg ttcagcaaat ctgcaaaccc agtggaatat tgtaggggag ttcagcaatt 240  
tgccccaaga agaacttata gaatggatca aatatagtag taaaccagat gcagtcctcg 300  
ag 302

<210> 1749

<211> 153

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1749

```

gaattcgcg cgcgctcgac aggcctcctct catattccat cgccagtttc tgttacaagg 60
cagactgaat caagccaaga tcaacacaca ctggtacacg tggctcccaa ccaattttat 120
atgtatatat atattctact tcaaacactc gag 153

```

&lt;210&gt; 1750

&lt;211&gt; 292

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1750

```

gaattcgcg cgcgctcgac ccccccccc cttttttttt tttttttttt cctccttaat 60
tttttggtca ttggattttt tccctcggtt agttaagtgc tctgctgctt gcttgctcat 120
gcttcttaac aatttttagc ttcgactgat ttttcttttt tctttttctc tttttactgg 180
tatttgtttt ttatactcat tcaactaaaca gggaattcct caagctgtac ttccccatt 240
accaaaggag cctgctcttg aaaaaaccaa cggtgccacc gcatgcctcg ag 292

```

&lt;210&gt; 1751

&lt;211&gt; 276

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1751

```

gaattcgcg cgcgctcgac gcgcacagtt ctttctgtac ctgtgtggag gaaaagtact 60
gagtgaaggg cagaaaaaga gaaaacagaa atgctctgcc cttggagaac tgctaacccta 120
gggctactgt tgattttgac tatcttctta gtggccgaag cggagggtgc tgctcaacca 180
aacaactcat taatgctgca aactagcaag gagaatcatg ctttagcttc aagcagttta 240
tgtatggatg aaaaacagat tacacagaaa ctcgag 276

```

&lt;210&gt; 1752

&lt;211&gt; 225

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1752

```

gaattcgcg cgcgctcgac tggctgggtg gtagatttaa atcactgttt ccgcatgtta 60
ttcatgacgc ccatgaaacc gcccaacaat ttagcttctt cccgagcagc aagtttcttc 120
tcggtctctt tcttgctgct cttctccacc ccagaggtgc ccatectccc tcagctcggg 180
tcacgcccgg ggctcgccgg gccgggcgag aggtcgcccc tcgag 225

```

&lt;210&gt; 1753

&lt;211&gt; 362

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1753

```

gaattcgcg cgcgctcgac agaccccaaca acatgcgccc tgaagacaga atgttccata 60
tcagagctgt gatcttgaga gccctctcct tggctttcct gctgagtctc cgaggagctg 120
gggccatcaa ggcggaccat gtgtcaactt atgccgcgtt tgtacagacg catagaccaa 180
caggggagtt tatgtttgaa tttgatgaag atgagatggt ctatgtggat ctggacaaga 240
aggagaccgt ctggcatctg gaggagtttg gccaaagcctt ttcctttgag gctcagggcg 300
ggctggctaa cattgctata ttgaacaaca acttgaatac cttgatccag cgttccactcg 360
ag 362

```

&lt;210&gt; 1754

&lt;211&gt; 256

&lt;212&gt; DNA

<213> Homo sapiens

<400> 1754

```
gaattcgcgg cgcgctcgac attgaattct agacctgcct cggctcttcc ctttttcac 60
ccataacctaa gccatcagca agtgcttctg aaataccatg tccagaatct catcacttct 120
cactctctcc actgctgcta ccttgactgc tgtcatcccc tcttgctgc attactgtac 180
cagccgcctg actcgtcttc ctgcttccac ctccccacct tcagtcatat atccaggcag 240
caacggaggg ctcgag                                     256
```

<210> 1755

<211> 226

<212> DNA

<213> Homo sapiens

<400> 1755

```
gaattcgcgg cgcgctcgac cgattgaatt ctagacctgc ctcgagcttg gtccacttt 60
tatatttttc ctcttcggtc cagaatttct tatttagttt ctgtatttt gcctactccc 120
tcccttctcc atgattcagc ctagtcttcc cgtcctctgt ggaactgggt gtgccttcc 180
ctgggccacc tcgtcttttg ctgctgtag cccacccgcc ctcgag                                     226
```

<210> 1756

<211> 209

<212> DNA

<213> Homo sapiens

<400> 1756

```
gaattcgcgg cgcgctcgac ggtgggggac tctgaacttg tgctgctgct gccatatttg 60
caatgggtgct gaggtgggtc atctggctca ttgccatgag caactatcat gccagtaata 120
accaacatgg agcagactct gaaaacgggg acatgaattc aagtgtcgga ctggaacttc 180
cttttatgat gatgccccat ccactcgag                                     209
```

<210> 1757

<211> 820

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (20)

<400> 1757

```
gaattcgcgg cgcgctcgan ccataatgat gctgcctcaa aactcgtggc atattgattt 60
tggaagatgc tgctgtcatc agaacccttt ctctgctgtg gtaacttgca tcctgtcct 120
gaattcctgc tttctcatca gcagttttaa tggaacagat ttggagttga ggctgggtcaa 180
tgagagcggc ccctgctctg ggacagtgga ggtgaaattc cagggacagt gggggactgt 240
gtgtgatgat ggggtgggaa actactgcct caactgtcgt gtgcaaacag cttggatgtc 300
cattttcttt cgccatgttt cgttttggac aagccgtgac tagacatgga aaaatttggc 360
ttgatgatgt ttctgtttat ggaaatgagt cagctctctg ggaatgtcaa caccgggaat 420
ggggaagcca taactgttat catggagaag aagttgggtg gaactgttaa cggatgaagcc 480
atctgggttt gaggtagtgt gatggaaaca ctctgttca gggagagtgg aggtgaaatt 540
ccaagaaagg tggggaacta tatgtgatga tgggtggaac ttaaataccc ctgccgtcct 600
gtgcaggcaa ctaggatgtc catcttcttt tatttcttct ggagttgcta acagccctgc 660
tgtattgcgc cccatttggc tggatgacat tttatgccag gggaatgagt tggcactctg 720
gaattgcaga catcgtggat ggggaaatca tgactgcagt cacaatgagg atgtcacatt 780
aacttggtat gatagtagtg atcttgaacg taggctcgag                                     820
```

<210> 1758

<211> 132

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1758

gaattcgcg cgcgctcgac gagtagttgg gcaaaacaaa tagcagtaat attaaagcca 60  
 gaaatctcct tagagttcct actgttgggc cagggtgtggg ggctcatgct tgtaatccca 120  
 gcgtttctcg ag 132

&lt;210&gt; 1759

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1759

gaattcgcg cgcgctcgac ccttttaata gaccaattcc tcttctcaaa attcagatat 60  
 tgtctgttct cacattccct cagttctcaa ttttctttct cgtagtcttt tctgtactta 120  
 acaaccctag attttctcag ttcaaggcaaa actctcatta ctagtatttt cctttctctt 180  
 tgaccctaaa gtgtgaagcc cttagcattt caccctatat tttctgagtg accttcccc 240  
 atgctgctgt gtcagatcac tctcgag 267

&lt;210&gt; 1760

&lt;211&gt; 237

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1760

gaattcgcg cgcgctcgac cagcgttcca agtgtctttc acatgctaaa tcgattgac 60  
 cttagtctcag agctcttgac cacagcccta tgcttaaaca aaatgccccca gtgttcactt 120  
 ttcacagggt gtctctctaa cacaactagc gtgtacgacg aatgctatta tgcccatctt 180  
 actgagggga aaacagcttc cctctcatct attctgaacc cctcttcacc cctcgag 237

&lt;210&gt; 1761

&lt;211&gt; 273

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1761

gaattcgcg cgcgctcgac cttggatcaa aagcatctct ttgaacctct cctcaggca 60  
 taccctgaaa tgctgtggac ttttaacctt tttctgttgc aaaggctcgt cacatctccc 120  
 tgggtgtttg gtcttctctt ccttggctct agtaacacag cagtctgttg cttcctagga 180  
 caacttataa tgggacccaa aggggaaaga ggatttcccg ggcctccagg aagatgtctt 240  
 tgtggaccca ctatgaatgt gaataacctc gag 273

&lt;210&gt; 1762

&lt;211&gt; 349

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1762

gaattcgcg cgcgctcgac tgcttgagga aggacaagtt aattagaaaa atatagaagg 60  
 gcatgtagat ttgaaagagg atttgggaac attttgaatt tagaaaatga atcttagaac 120  
 ttatacttct aactttttat gcctaaagga actaatgtac attttatgat tttagttata 180  
 caagtggagg gcttatcagc tgggcatatt ctttttccct ttgttaagaa aaagaaccaa 240  
 atgagtaaga gaagaatgta actgggaaaa aactaaaaac agaggaagga agtgggttaa 300  
 gaagatatat ctgtaaattt aagaaagcat ttggagaggg gagctcgag 349

&lt;210&gt; 1763

&lt;211&gt; 263

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1763

gaattcgcg cgcgctcgac aattattttc acttttatcc tgattacctt ttacagtggg 60

```

cactttattg acaaaaccca agtccacctc acctctctgg cagctaccta agtgggtatgg 120
gttttattgt gtctctattt ttgtcttcat tgtttgtctc taagatccct cctgggtcag 180
gccatgtctc tcgccccccac ccgcaggatc tgatgctaca ggaatataat tgtgggtccca 240
ctaccacaac ccctcatctc gag                                     263

```

&lt;210&gt; 1764

&lt;211&gt; 568

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1764

```

gaattcgcgg ccgcgtcgac gaccttttga tgagattttt gtgggggtctt ttttgttgat 60
gtttgtgttg ctttctgttt ttcttttaac agccaggccc ctcttctgca gggctgctgc 120
cgtttgctgg aggtccactc cagactctat tcacctgggt ccctcccaca cctggagata 180
tcaccagtgg aggtgcagc aaagcaaaga tggctgcctg ctcttctctc caggagctcc 240
atccccacagg ggcaccaaac tgatgccage tggaaqtctc ctgtatgagg tgtctggcca 300
cccttggttg gaggttccac ccagtcagga ggcacgatca gggacctgct taatgaagca 360
atctggctgc cccttggcag agcaggtgca ctgcactggg ggaaatecca ctctgtctgga 420
ctaccagcca cctcagagcc agcaagcagg aaagactaag tgtgttgaaac aggagatcat 480
gactgctctc ccacagagga tctgtcccac tggccacctc agagccagca agcaggaaaa 540
actaagtgtg ttgaacagga gtctcgag                                     568

```

&lt;210&gt; 1765

&lt;211&gt; 176

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1765

```

gaattcgcgg ccgcgtcgac gtccttttct gtttcttgta ccccttcttc cctgttatct 60
catctaaatc ctctgggaatt ctgatatcat atttatcctt ttcaaatcag aactctgttg 120
catttttgta gtttctaaga ttccaaatga tgatcctcgt ccccttcttg ctctgag 176

```

&lt;210&gt; 1766

&lt;211&gt; 528

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1766

```

gaattcgcgg ccgcgtcgac atgcaacttc tgcaacttct gctgggggctt ttgggggccag 60
gtggctactt atttctttta ggggattgtc aggaggtgac cactctcacg gtgaaatacc 120
aagtgtcaga ggaagtgcc a tctggtacag tgatcgggaa gctgtcccag gaactgggcc 180
gggaggagag gcggaggcaa gctggggccg ccttccagggt gttgcagctg cctcaggcgc 240
tccccattca ggtggactct gaggaaggct tgctcagcac aggcaggcgg ctggatcgag 300
agcagctatg ccgacagtgg gatccctgcc tggtttctct tgatgtgctt gccacagggg 360
atltggctct gatccatgtg gagatccaag tgctggacat caatgaccac cagccacggg 420
ttcccaaagg cgagcaggag ctggaaatct ctgagagcgc ctctcttgcg aaccgggagc 480
cccctggaca gagctcttga ccagacaca ggccctaaca ccctcgag                                     528

```

&lt;210&gt; 1767

&lt;211&gt; 281

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1767

```

gaattcgcgg ccgcgtcgac cctaaaccgt ctatttaatc ctttgttgcc ttctttctta 60
ctaaagggtga gtgagctgtc tgcattcttt tctggaaccc ttctctgtgc acctgagccc 120
tctggcctgc tcatggacct cgctgagcta tgctccctct ttctcatcat gcgtttttcc 180
ttctctgctg gatcatttgc ttccacacac aaactgctg ctatgtctct cgtattaaaa 240
ataaaagaac agaaaattct ccccttctg aatcactcga g                                     281

```

&lt;210&gt; 1768

&lt;211&gt; 112

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1768

```

gaattcgcg cgcgctcgac gttttagtgc gctgggtggg gtaataagtc cttttttagt 60
ttttcaagga gctgccaagt tattgtcaac aatgtttgta ccgtttctcg ag 112

```

&lt;210&gt; 1769

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1769

```

gaattcgcg cgcgctcgac gtgggtatttc tgttctgag cttcccgagg gatatcccat 60
aattagttat ctgtattggg tgggaaaaag aaaataactg gggttttctc ctgttgccca 120
attctgtgac acgtttgtta acccctagtc ccaatttttt ctgccggctg ctcttagaag 180
gcttattgga caatcttaac atctgagtag cagaagtcct tgagtaaaact tgtgctgaag 240
aattgccaca tagtttaata gttgtggatc tgetgggttt catggatctt ttgtttcagt 300
atcaagaaga tgctttgttg gaacatatat tttacccac ttttgetcga g 351

```

&lt;210&gt; 1770

&lt;211&gt; 407

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1770

```

gaattcgcg cgcgctcgac aaagtttttt tttttcttct aaactgattt ttagcaaacc 60
tcagactgaa acacaggact caacgggtgta ttcttggaag gcaagggtgct ataatggcag 120
gcacaatctg tttcatcatg tgggtgttat tcataacaga cactgtgttg tctagaagtg 180
taaggcaggt ctatgaagta catgattcag atgattggac tattcatgac ttcgagtgtc 240
ccatggaatg tttctgcccc ccagtttttc ctactgcttt atattgtgaa aatagaggtc 300
tcaaagaaat tcctgctatt ctttcaagaa tttggtatct ttatcttcaa aacaacctga 360
tagaaacat tcctgaaaag ccatttgaga atgccaccg actcgag 407

```

&lt;210&gt; 1771

&lt;211&gt; 328

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1771

```

gaattcgcg cgcgctcgac ctgggacgag taggtttcac tgtttctcat aggagacttg 60
acagcttaaa gtaaaaacaa attatttttcg tcaaagtttt ttttttctc ttaactgatt 120
tttagcaaac ctgagactga gacacaggac tcaacgggtg attcctggaa ggcaagggtc 180
tataatggca ggcacaatct gtttcatcat gtgggtgtta ttcataacag acactgtgtg 240
gtctagaagt gtaaggcagg tctatgaagt acatgattca gatgattgga ctattcatga 300
cttcgagtgt cccatggtct cactcgag 328

```

&lt;210&gt; 1772

&lt;211&gt; 339

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1772

```

gaattcgcg cgcgctcgac tgctagtaag aactactcca tggctaattt gttcttcaga 60
gtaaaactgaa ctaatctttt ccaagtgcga gctgcctcaa gttgataaat gcctaaattt 120
ccaaaatact acaacaaaaa gcaaagtttt ccagttctcc agatacaatt tttttataga 180
tacctcaaca tgcacaaaaa ttttcttctg tgctgtgtgt ttttgagaca ggggtctcgt 240
ctgtcaccgg ggccagagtg taatgatgtg aacacagctc actgcagcct caacctcctg 300

```

ggctcaagca gtcctccagc ctcagccccc tccctcgag

339

<210> 1773

<211> 292

<212> DNA

<213> Homo sapiens

<400> 1773

gaattcgcg cgcgctcgac ttcctagtaa ctgtgtcttt cacattttat aaatattaac 60  
ttcttaaacc tgcattctt tctttgtcca catatcgtea cattacaaa aagaaatgtc 120  
aattaaatac actgttaatg ttactatatt aaatctgtc tctgtctcag cactccgctc 180  
cttttaccac caccatcac ccctaacccc actcccacca ctgctagttt gteccactgc 240  
tactgttgcc aacactgtca ccactgtcac catttcaacg tccccctcg ag 292

<210> 1774

<211> 247

<212> DNA

<213> Homo sapiens

<400> 1774

gaattcgcg cgcgctcgac cacagacacc cagctaattg tcattacacc gcctcagctt 60  
cccaaaactgt ttggattaca ggtatgagcc actgtgcccc gcagaaatta catttacaaa 120  
ttaatatgaa gacatggtga taactaacat atttataaca tgaaatctgc tcattccagga 180  
acatagaatg caaatctttc attccactca gcaaaatttt gtctgtcct tgataaaagt 240  
cctcgag 247

<210> 1775

<211> 270

<212> DNA

<213> Homo sapiens

<400> 1775

gaattcgcg cgcgctcgac actaatgaag gtgcctggga ctagggcagc taaaagattg 60  
ttttgtcaag ttctccagct gctactcttg ggccatatgt ggatgtttat ggttccagt 120  
gcccactcca atcctctttt ttgtctagt cctggcctgg taccaccagc tcctagggct 180  
actggcatga gtgaaaagag cccagtgtca cccaacacac cacctaccac cttgtattct 240  
tcaaccaccc ggacccacac gtctctcgag 270

<210> 1776

<211> 251

<212> DNA

<213> Homo sapiens

<400> 1776

gaattcgcg cgcgctcgac attgaattct agacctgacc ctccccaact ctccctgtct 60  
cctctttcat tcttccctc tttcctttt cctctctttc cccacttga tctgagctgc 120  
ttcttaacgg tatgagatta ttttactcct tcttcttct ttccttctc gtccctgctg 180  
gcctagagag gtgcccctgc tgtccctcct gcacccacgg tccctttcca agcatgaaca 240  
gtggactcga g 251

<210> 1777

<211> 342

<212> DNA

<213> Homo sapiens

<400> 1777

gaattcgcg cgcgctcgac gttatttata aattttttca aagatctaca ttaaaagtat 60  
gaaataaatt ctttttctt ttttaagggt atgacataag tctttcatag tagcagaatt 120  
tgctttagga aaacgatgat tatatgttta tatatttacc atatagaatc tgtaacataa 180  
tggatgaatgt cctgatgtct tctaattcga tcattaaact gatttagatg ggtggatgga 240

tgacaggcag gcaggctcac agacaaacct tttttatgct aagccaacaa accaccattt 300  
tcttcttttc cccttagtcg ggccttacct caatctctcg ag 342

<210> 1778

<211> 419

<212> DNA

<213> Homo sapiens

<400> 1778

gaattcgcgg ccgcgtcgac gtttggaag aaatgggtgaa tgctgctgg tgggtcttc 60  
ttgctgact ctcactcctt cttagtgcca gcacagatga agctgccact gagaatattt 120  
taaaagctga actgactatg ggtggtcttt gtggaagact gggccttgta acttcaagag 180  
atgcctttat aactgcaata tgcaaagggt ccctgcctcc ccattatgct cttactgtat 240  
tgaataccac cactgcagct acactttcca acaaatcata ttccgttcag ggccaaagt 300  
ttatgatgat aagtccatca agtgaatctc accaacaagt tgggagctg ggtcaacctt 360  
tagcagtgcca gcctcaaggg acagtaatgc tgacttccaa aaatatccac gtgctcgag 419

<210> 1779

<211> 127

<212> DNA

<213> Homo sapiens

<400> 1779

gaattcgcgg ccgcgtcgac gtttggtctg gcttattatt atcaaaggcc attaagacca 60  
ctgataaaaa agttttaag gttataatat ttataaaagt atcatgaaac tggagtgttt 120  
cctcgag 127

<210> 1780

<211> 527

<212> DNA

<213> Homo sapiens

<400> 1780

gaattcgcgg ccgcgtcgac cagagaccaa atcactcagt tctcagaaca cctgaagatt 60  
tttttttaaaa ttgttaaaaa tcagagctat ttattagaag caatctgtgg gtgataataa 120  
atctgctttt agagttttat ttagctagat tttttattgt gctaaataat agaagggtac 180  
tgccagcacc atctctgac agtctgcaaa cttagagcgg tcagcctctg cttgcaaaact 240  
gaaaagttag ttctctagac agcacctgtg gtctgaactt cagtacttct ccaaggaaaa 300  
tcttaccagg aaaactctgc ccagaaatct gtctattaac agaggtgata accaagctct 360  
ttcaaggtaa taatatgttt atattgagtt ttatactttc catgttccga ggtggccatt 420  
ttcattgcat atgtcatccc actaacgtgg ctacacttat ttgtttgttg atgcctgaca 480  
gttcacgtca gtcaaattgc ctgcccctct cagggtggaat gctcgag 527

<210> 1781

<211> 218

<212> DNA

<213> Homo sapiens

<400> 1781

gaattcgcgg ccgcgtcgac cctaaaccgt cgattgaact gcctcgagcg attctctata 60  
catctttccc tgcaaaaagaa gtattttcaa tggtttactc caaactaata cttcaaaact 120  
tcctctccac tcaaaactttt cactcaatat ctagtctaac aagctgttgg gtggctgcct 180  
acagtgccac atccctgcct ccattctcta tgctcgag 218

<210> 1782

<211> 260

<212> DNA

<213> Homo sapiens

<400> 1782

```

gaattcgcgg ccgcgtcgac ctgaatacct ttgaaaagaa cacaccctat cccattcctc 60
caggtagcca ccattcttgg acttatacca agcagccttg ctacaaaaca cttctgagtt 120
tgctaagatc caagagacca gaccttctca tgacaccact gctgtcttct tgtcttctc 180
tctgtgcagc cacccttagca aggtctcagtc tcagtcttgc ctccagtcac catccaaaaa 240
taaccaccac ttcctctcgag                                     260

```

<210> 1783  
 <211> 106  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1783
gaattcggcc aaagaggcct aaatttctac cacgtttctg gatacagtga aatagctaac 60
ctctgtttca agaatgcagt tattaagtca aaggaaacta ctcgag                                     106

```

<210> 1784  
 <211> 149  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1784
gaattcggcc aaagaggcct attttgctgc taagagttcc cgttttaatt gtcttgcttc 60
ttttctgaac tcttctactcg agtttgacc caaagatcat tgccagaatc ggccaaagag 120
gcctaattga attctagacc ggcctcgag                                     149

```

<210> 1785  
 <211> 158  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1785
gaattcggcc aaagaggcct acttaaattct aaaagtagat ctctgacttg atattccagt 60
ggcctggcct gtgaatcatt tctcgttgac tagcctgtct taactcaatt tgactaaaaa 120
gtcttcacca agagatgtta gttgcacctt ttctcgag                                     158

```

<210> 1786  
 <211> 102  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1786
gaattcggcc aaagaggcct attcttttgg acaaacatga taaacttctt cagatacttt 60
tttttctctt tggcaggaag gtgtcttgct gcaggtctcg ag                                     102

```

<210> 1787  
 <211> 110  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1787
gaattcggcc aaagaggcct acccagattg ccagcgcagg ttggaagccg catatttgga 60
tcttcaacgg atactagaaa atgaaaaaga cttggaagaa gctcctcgag                                     110

```

<210> 1788  
 <211> 149  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1788
gaattcggcc aaagaggcct aaacacgatt ccattttgtt gatgttctcc ttagcagcag 60

```

tcgtgtctctc ttttcacatt ctgtctacag caaatgcac cttttgccac attgtcccct 120  
gcaccttcca tagatcacac aatctcgag 149

<210> 1789  
<211> 195  
<212> DNA  
<213> Homo sapiens

<400> 1789  
gaattcggcc aaagaggcct aaaaaaagac atttattcag cgtcacgac agactgttac 60  
atttagcaat caacagcatg gggtgcaaaa aaaaaaatc tacattaaaa ccctttgttg 120  
gaatgcttta cactttccac agaacagaaa ctaaaataac ctgttatata attagtcaca 180  
aatacagtcc tcgag 195

<210> 1790  
<211> 233  
<212> DNA  
<213> Homo sapiens

<400> 1790  
gaattcggcc aaagaggcct aagaaagttg gatttttttg aattttggcc tgtgcttcaa 60  
ttccaaatcc tttatttgat ctggctggaa taacgtgttg acactttctg gtaccttttt 120  
ggaccttctt tgggtgcaacc ctaattggaa aagcaataat aaaaatgcat atccagaaaa 180  
tttttgttat aataacattc agcaagcaca tagtggagca aatgagtctc gag 233

<210> 1791  
<211> 123  
<212> DNA  
<213> Homo sapiens

<400> 1791  
gaattcggcc aaagaggcct agatgggatt ttcattgttaa cttttttcat ggcattcctc 60  
tttaactgga ttgggttttt cctgtctttt tgctgacca cttcagctgc aagaaggctc 120  
gag 123

<210> 1792  
<211> 131  
<212> DNA  
<213> Homo sapiens

<400> 1792  
gaattcggcc aaagaggcct atgaacattt atataatcta acctggacat caagctgttc 60  
tctctctctc ttttttttaa ttttattatt attatttttg caacatgtac atttctaaca 120  
tcgtactcga g 131

<210> 1793  
<211> 127  
<212> DNA  
<213> Homo sapiens

<400> 1793  
gaattcggcc aaagaggcct agggatctgt tgctggaaag tcattgtgaa tttttttctt 60  
ttcctctttt tatttgtata aatatatgag gtacaagtg agttttgtta tgtggacctg 120  
cctcgag 127

<210> 1794  
<211> 107  
<212> DNA  
<213> Homo sapiens

<400> 1794  
 gaattcggcc aaagaggcct atggacgtag acattactct gtcctcagaa gctttccata 60  
 attacatgaa tgctgccatg gtgcacatca acagggccat actcgag 107

<210> 1795  
 <211> 104  
 <212> DNA  
 <213> Homo sapiens

<400> 1795  
 gaattcggcc aaagaggcct aggacattct tatctcggga cacacacaca aatttgaagc 60  
 atttgagcat gaaaataaat tctacattaa tccagggtact cgag 104

<210> 1796  
 <211> 118  
 <212> DNA  
 <213> Homo sapiens

<400> 1796  
 gaattcggcc aaagaggcct agagtttagta aggggtttat atctcttctg tccatattgt 60  
 tttcaaagga atgaggtgtt taggtggctg gaaaagcatt tgtaggaagt ggctcgag 118

<210> 1797  
 <211> 106  
 <212> DNA  
 <213> Homo sapiens

<400> 1797  
 gaattcggcc aaagaggcct ataagtattg cctcaagaac tttccactat agaattcttt 60  
 tttttattaa aacatgtatg tattttaaac tcaactgggt ctcgag 106

<210> 1798  
 <211> 124  
 <212> DNA  
 <213> Homo sapiens

<400> 1798  
 gaattcggcc aaagaggcct aacttaagta ctaatattcc agaaattttt gaaagcagta 60  
 accttaattt cctatgtatt tcattccact tttgcatata ggtcaaataag caatgtgtct 120  
 cgag 124

<210> 1799  
 <211> 155  
 <212> DNA  
 <213> Homo sapiens

<400> 1799  
 gaattcggcc aaagaggcct atgaaaataa cctatgattg tatgttttgc attcctagaa 60  
 gtaggttaac tgtgttttta aattgttata acttcacacc tttttgaaat ctgcctaggc 120  
 ctctttggcc gattgaattc tagacctgcc tcgag 155

<210> 1800  
 <211> 115  
 <212> DNA  
 <213> Homo sapiens

<400> 1800  
 gaattcggcc aaagaggcct aattatccaa aatgcttgag ccagaaatgt gtttttagatt 60  
 ttggcttttt ttttttcagg ttttagaata tttgtgtgt actggtgagc tcgag 115

&lt;210&gt; 1801

&lt;211&gt; 110

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1801

gaattcggcc aaagaggcct aagaattatt tttctctgta gaaacacaga taccacttta 60  
tcagggaagt tagtcaaatg aaatggaaat tggtaaatgg acttctcgag 110

&lt;210&gt; 1802

&lt;211&gt; 199

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1802

gaattcggcc aaagaggcct aggtgcctgt gaggaatttg aggtccctgg acttctcgag 60  
gacacagtct ctgtctccat cagctgcagc cttcaccacc tcgatgtaat ggtctgtgaa 120  
ctctgtccca aactcccggc ttgcacaaaa gtccagcagg gtcacctggg ggctggaggc 180  
atcatacaga aacctcgag 199

&lt;210&gt; 1803

&lt;211&gt; 259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1803

gaattcggcc aaagaggcct agtgtgcctt catcttgcct atcttctcct ggctggcccg 60  
gagctcgctc tcggtggcct gcaggctcct ctccagtgtg gccacctggg ccagcgtggc 120  
ccggcgctcc cgctcactgt gccgcacact ctctctctgc agcgccagct ccgctgggac 180  
cccgtcagc cgcctatcca cactgcgcgc ggcttctcct ctctcagcca ccgcttctg 240  
cagctgcctg gccctcgag 259

&lt;210&gt; 1804

&lt;211&gt; 138

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1804

gaattcggcc aaagaggcct agtcaggatg aaaaggaagt tgagatTTTT taaatccctc 60  
ttcgcttgct ttattttcag taccaacttg ttatcttttt ccttatctga ggctacctgg 120  
ggatgggatg gcctcgag 138

&lt;210&gt; 1805

&lt;211&gt; 103

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1805

gaattcggcc aaagaggcct agctaaattt ataggagttt tcagtaactt aaaaagctaa 60  
catgagagca tgccaaaatt tgctaagtct tactattctc gag 103

&lt;210&gt; 1806

&lt;211&gt; 110

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1806

gaattcggcc aaagaggcct actgtttcca atacactggg agagtatcca agatagccag 60  
aagaataaag acgacaataa aacagtaaaa tgatcaggtg gtggctcgag 110

<210> 1807  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

<400> 1807  
 gaattcggcc aaagaggcct acgagtgtta aagtggtag aaggggtgcta gtacttaagt 60  
 gagatgtcag tgcttgctgt gttcattact attacggtat atgtgaatta cttgggcagg 120  
 ttgggagagg ggtctaggtc atcaggatac ctcgag 156

<210> 1808  
 <211> 102  
 <212> DNA  
 <213> Homo sapiens

<400> 1808  
 gaattcggcc aaagaggcct aacttcacgt atggctgctt tttgttctt aaattccttt 60  
 ctttttagtga tggggtcttg ctgtgttact caggccctcg ag 102

<210> 1809  
 <211> 134  
 <212> DNA  
 <213> Homo sapiens

<400> 1809  
 gaattcggcc aaagaggcct agtttttctt ttaacctct ttaagtattg attctgcttg 60  
 agaattattga agtacttgcc agaagttgtg gatttcagtt ttaacaaatg ctattaaagc 120  
 ggagaatgct cgag 134

<210> 1810  
 <211> 109  
 <212> DNA  
 <213> Homo sapiens

<400> 1810  
 gaattcggcc aaagaggcct actttcactc ttgtaaaagc cacatatcca catctctttc 60  
 attttctcag tgtgttatgc agcaatttat taaagtattt attctcgag 109

<210> 1811  
 <211> 129  
 <212> DNA  
 <213> Homo sapiens

<400> 1811  
 gaattcggcc aaagaggcct aatggacagt ctgctactgt gcatgcttaa ctttgtcctc 60  
 ttactctgt cttttgattc tgttaggggt ttggcaaagg gtggagagaa aagtagagaa 120  
 ggactcgag 129

<210> 1812  
 <211> 224  
 <212> DNA  
 <213> Homo sapiens

<400> 1812  
 gaattcggcc aaagaggcct attgggcagg gagtttagaa tgaatggta atgtttgatg 60  
 gtcattgggc ttctttttt tctatgaagt tgtttaagt gataataata acaataacaa 120  
 caatgaaagc aaatcaatgt tgcagcttga gagctggtgg ggccttggcc catagcagca 180  
 cagaaagggg ggggaaggag gacagcattg atgggggtct cgag 224

<210> 1813  
 <211> 154

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1813

```
gaattcggcc aaagaggcct atggacctat tataattcct gtctggtttt gtccactgga 60
gcaataaagg aaaatgctta tcttacttct ggagtttctt cagctcctgg gttcagccct 120
caactattcc tcagcagggt ccttcaagct cgag 154
```

&lt;210&gt; 1814

&lt;211&gt; 139

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1814

```
gaattcggcc aaagaggcct agaaaatgtg ggtgatgggg aagttggtaa tgactccgct 60
gttttttctc atggctcctt tgggccacag ctgcccggcc ccggtataca ctgtagttga 120
ttgcagggaa acactcgag 139
```

&lt;210&gt; 1815

&lt;211&gt; 112

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1815

```
gaattcggcc aaagaggcct actcatcttt tgtagattt attcctggat ttttttttta 60
ttctattgta aacgatacca ttttgtaaat gttattttcc agtttactcg ag 112
```

&lt;210&gt; 1816

&lt;211&gt; 153

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1816

```
gaattcggcc aaagaggcct atataaagca gaattcaaga ggtctcctgt agtattaatg 60
tctgataaac agtgtgtgat tctcttcctc aatatttctt tctttctgtc tctttgtttc 120
ggtctctgta tatatattac tgattcactc gag 153
```

&lt;210&gt; 1817

&lt;211&gt; 103

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1817

```
gaattcggcc aaagaggcct aaaaaatatg ccattcttat ctgtttgggt ttttaattct 60
ggcttaatat ttggggttga gtcatttggt ttgagaactc gag 103
```

&lt;210&gt; 1818

&lt;211&gt; 118

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1818

```
gaattcggcc aaagaggcct agtgaagtgg agttatgggt tcattcaata gagtattgct 60
gattatactt gagtggaatc ctttcctcac gtactccac agacgtcggg acctcgag 118
```

&lt;210&gt; 1819

&lt;211&gt; 456

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1819

```

gaattcggga aaagaggcct agcctgtatt tccagctact tgggaggctg aggtaggagg 60
atcatttgag cctggggaaa ggagggttga gtgagccatg atcacgccag tgcagtccag 120
ccagcgcaag cgagtgaagg cttgtcccaa aagataaaaa taagaaaaac ttcattcttg 180
gtctagacat ttgcagctga caaccattca acgatttggg ttttttttag tccatggatt 240
aaacaatagt gggtaagaa tgctttttga actttccttg aggaaactag ggaaaccacc 300
agtgcagtta taattcatat tgtgctgcct ggccccgtca gccttgccgt gtccatgtgt 360
cagggtcccc agcctacagt ggattttccg tttacatccc aggatgattt aggaaatctc 420
tccagttttc aacagaacca gctggggcgc ctcgag

```

456

&lt;210&gt; 1820

&lt;211&gt; 618

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (609)

&lt;400&gt; 1820

```

gaattcggcc aaagaggcct aggttaaagt tttattaaat caagctttta aattatatat 60
ccacctacag tctataaaca aatatagtac acatgtatgt aaaaggctag cagataagaa 120
ccagtggaaa aactaaagtt ccctttgcac accggcacct catcacaaca ccctcttggt 180
gtggatgcca tggggccact gctgtagtca aaagttaaag gaaaaaccaa caagtttagt 240
ttgactccgt ctccctagggt ggatttcatt cagatatttg ttccatatta taggagggtg 300
gatcctagca aggcaacagt gtagttttta cattcacaga ttggctgaag tagtacaagt 360
tgagctgcta atctagggtg ctccctccct gttaccatac ttcataagaa atgtgaatta 420
aatgaacaa tggaccacag gtggttataa aaatagataa ctgcagagat cataaatatc 480
tacagttagt agagcagaaa ctctaaaaat ttacctttt ccataatgtg cagaatatatc 540
taagtatgtt caagagacac agtcagcaga cttcagagt gtaattacaa gggcatttgt 600
aaagaaatna cactcgag

```

618

&lt;210&gt; 1821

&lt;211&gt; 575

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1821

```

gaattcggcc aaagaggcct actgtgggga ggtattcaaa ggtttcctaa aacatcaggg 60
aagttcgcca gggaaagact cgttggttaag catgttctag ggagagctag tggtagacag 120
gccaggcca cagcaggcct tgtagatggg ccagggtgac ttacctgtgc actaggggtg 180
gtacttgccc ctgcctggc ccctgtgtgg gcttaccctc tgctgagacc attgtgggtc 240
tctgggtgcca gaggcaccca gaggtctgtg atctgcctgc tttgaggcgg gaagggttgt 300
tccagttctg ctttcccaag cgggtggctgt gggcaaccct tatgatccag gacgatggg 360
catcttaacg agcagctggc tttacaccca gggcgagcag aggtctttaa ttatgcccgt 420
tgtcctggag taatttagag cagcctcttt tgtattcagg catcctggtt tgcattgtaa 480
ggtatgaata cagttgcctt taaacagcac gatgaagtgg gcgggttatt gttctcattt 540
caccaaggag gataatgaac cttagcgatc tcgag

```

575

&lt;210&gt; 1822

&lt;211&gt; 288

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1822

```

gaattcggcg ccgctgcgac taagcccctg tattatcaca aattgtcaca tgctgtcatg 60
tattactttc tccttttctg taatgacctt agccctccat attgtcatgt attgtcacgg 120
attagcagtg cttattctga ccacgtagca gtgtgttttg tgcattgtgc taatcaagat 180
ttagttaaat tattatactt tcatatgttg acttgtattt tcatgggact gatcgtggc 240
gtggagccgg gcgtggaatg cgagtgccta gtgggccacc gcctcgag

```

288

&lt;210&gt; 1823

&lt;211&gt; 167

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1823

```

gaattcgcg cgcgctcgac gacatgcaac taatagccct tgaacagcta tgcattgctgc 60
ttttgatgtc tgacaacgtg gatcgttggt ttgaaacatg tcctcctcgc actttcttac 120
cagccctttg caaaattttt cttgatgaaa gtgctccaac actcgag 167

```

&lt;210&gt; 1824

&lt;211&gt; 207

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1824

```

gaattcgcg cgcgctcgac ccttattttg aagaaaagaa aagaaattga agaagtgaca 60
gaaaacttct taaatttggc aaacctaaat attcaagaag ctgggcaaac tcctaacagg 120
aaaaactcag atccattccc agatactttt taagtaattt gctgaaaact gaaaacaatg 180
aaaaaaatct tgagagcagc actcgag 207

```

&lt;210&gt; 1825

&lt;211&gt; 222

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1825

```

gaattcgcg cgcgctcgac gtttaaaaag gagtagccta agattaattt aaaagattat 60
ttacagatga cacatttatg gggtcactat ttaagtaaatt ttgctgccct ccacagccct 120
ctaattttat ttatatgttc cagcagatta ttaggatctg cttacttctt aggaaagaat 180
caatgctggc aacacattgt ttcagaaaca ccaagtctcg ag 222

```

&lt;210&gt; 1826

&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1826

```

gaattcgcg cgcgctcgac cctaaaccct catattcttt ccccttatca catgttggtt 60
cctctctat gctacctggc cctttccctc ctctcccaac ttgccccaca gctgctcccc 120
ccaaccacac ctgacctggc caaccctct actcaccctc tcgag 165

```

&lt;210&gt; 1827

&lt;211&gt; 145

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1827

```

gaattcgcg cgcgctcgac cttcattgct ctgtttgggt tcctgttttg caagggcaaa 60
aactgaataa aaattatagc attctatttt ccagccacaa atgtgggtcct cagctcttct 120
taattatata atcccattac tcgag 145

```

&lt;210&gt; 1828

&lt;211&gt; 205

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1828

```

gaattcgcg cgcgctcgac ctctgggttt gttcttatta tcattattga tgactttatt 60
tgaagaaccc aaatatgttc ttcccatttt ttcggtacac ttgttaatat ttttagttaa 120

```

aatcattctc tggggagagt taaaagaagc agtccaggta gctgggttat tgtgtagagt 180  
aacagataat tctgatgtac tcgag 205

<210> 1829

<211> 190

<212> DNA

<213> Homo sapiens

<400> 1829

gaattcgcg cgcgctcgac ttttctatta agcacaaaat ttaacttttt ttcagtctag 60  
attttgattc tccagaacca tgctttggct tttctcctg tgttttctgc aggaaagtgg 120  
atttatggtt actatggtct ctgggcttat agatgaactt ccttttaact gtttaatgtg 180  
cacgctcgag 190

<210> 1830

<211> 177

<212> DNA

<213> Homo sapiens

<400> 1830

gaattcgcg cgcgctcgac actcccccatt aacctctctg acacctcatc atttacacct 60  
ccagacatac tagccccctta ttgtttctcc cccatggctg ttccttcttt ccttttgctt 120  
ggagtacttc cctctctcac caagtctctc cccaatatct tcacagagtc gctcgag 177

<210> 1831

<211> 196

<212> DNA

<213> Homo sapiens

<400> 1831

gaattcgcg cgcgctcgac cactgggtcat gtattttatt catatttata tgggtctactt 60  
cctgtggctg ggagcagcag ctctgaagg ttccgtgggg gtgcgggggg ttggacagga 120  
cactccttct tggaaggcac caattttccc agcccactc ccattacaca cacacacaca 180  
cacacacact ctcgag 196

<210> 1832

<211> 305

<212> DNA

<213> Homo sapiens

<400> 1832

gaattcgcg cgcgctcgac gggggaaata aagcacatct gaaataattt tcaaaaacga 60  
ttggcctctt caaagaagtc ataaatatct gacactcact gagaaataac tggcaactta 120  
catgatcccc ccaaattctg agctaatacat tcatagaggg gaaaatagat aatgtatagt 180  
gttacttcca ttgatgata atgatgatga tgatgatgat ttttttggtt attctaagac 240  
tgagcttcgc tctgtcacc gggctggagt gcaatgggtc aatctcagct cactgcaacc 300  
tcgag 305

<210> 1833

<211> 266

<212> DNA

<213> Homo sapiens

<400> 1833

gaattcgcg cgcgctcgac actccccctg tggaagaaac cagctctgtg tcttccctga 60  
tgtcttcacc tgccatgaca tccccttcct ctgtttctc caccatcacca cagagcatcc 120  
cctcctctcc tcttctgtgt actgcacttc ctacttctgt tctggtgaca accacagatg 180  
tggtgggcac aacaagccca gagtctgtaa ccagttcacc tccaaatttg agcagcatca 240  
ctcatgagag accggcccat ctcgag 266

&lt;210&gt; 1834

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1834

```

gaattcgcgg ccgcgtcgac ttcatttggg tgttacatct cttaaattct ttcttctct 60
gtctttcttc ccccaacttt ttttttttgc ttcattgctg tgacttggtt tggaaacctg 120
gtcagttatc ctgtagagta ctgtatttct cactccatat ttgtttgctt tcttggtgtg 180
ttaatttggt cctctatcct ttggatttcc tataaaatgg aagtcctcga g 231

```

&lt;210&gt; 1835

&lt;211&gt; 217

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1835

```

gagccccag taagtatttg cagatcaagt cgccacctgt ttctaggatc acagaaggtt 60
cctatagatc agtctagcct acccgtttta ccagtggaga aaccaagcac caggaaagga 120
attggccatg tcaactcagt agcaaacagc tgagttgaca ctggaagctg gaagcttgtt 180
tgccagtctg ttgttcacat tatactcaag actcgag 217

```

&lt;210&gt; 1836

&lt;211&gt; 179

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1836

```

gaattcgcgg ccgcgtcgac agaataacgt gcactatgat atctgtgttt gggttgtatg 60
atagttttcc atacctttc cttagcagca tttacataat taaggcatac ttcatttgca 120
cagacaatct gatttccctt acccttcaat cacaaccctt aaaaccccca attctcgag 179

```

&lt;210&gt; 1837

&lt;211&gt; 188

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1837

```

ctcgagaaat gggaattgca ttgagaaagt ttccttttgt ttttctaaat ggctttttgc 60
ctgaggggaag gcctacgtta gccacgttag gtaatagaat ccagatagaa actactgtct 120
tactgagatg aagaaccaga tgacagagtt cagagtgtat ctatcagggt cgacgcggcc 180
gcgaattc 188

```

&lt;210&gt; 1838

&lt;211&gt; 244

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1838

```

gaattcgcgg ccgcgtcgac tctcaatgga cagcttagtc aacggaagct cagagaggtg 60
gtgtaacttg ccaaaagtcc cactaccagc tgaatgtccc cacggggtct gcaccagga 120
gtctgacaca gagcccaggc ctcagcacct ggcgatgttt tgggggtgtg agcagcccag 180
cctactctgg gcacgtgttt acttgctgtt ccttctgcct catgtttgtg tttgcccct 240
cgag 244

```

&lt;210&gt; 1839

&lt;211&gt; 148

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1839  
gaattcgcgg ccgcgtcgac ttcttaaccg ttgcaagca ctattccctt gccgaacctt 60  
taggaatcggt gcatccgtga ttttctaata atttatcatg cgtttagtgc tagccttttg 120  
ttatgtatta tgcaggtgcc aactcgag 148

<210> 1840  
<211> 596  
<212> DNA  
<213> Homo sapiens

<400> 1840  
gaattcgcgg ccgcgtcgac atgaccttac gaagcttaac ccaaaggtag agagtccatc 60  
cctttatatatt ctgcattttg taaaatgtaa acaatgctta ttttgtgcaa aaataatttg 120  
ctactagtct ttgtggaatg tgacttgata aggagtatta ggaattgttc atatcaatta 180  
ttttaattac ttttttttca gtttgaaata gtttagagatt cgtaggaagt tgtgaaaata 240  
atacagagat ctctgtact tctcaccag tctttccagt ggggagaatc ttacaacact 300  
aatagtgaat tatctagggt aggaagttgg cattggtata gtccacggac ctactcaca 360  
tttccctggt tttgcgtaca tgtgtgtttc tcggcatcgt gtgtatagat gataaatact 420  
aatatatatg tatagaacaa atctatacac atgatgttc ctccctccgc ctccctggga 480  
tctttcatat atactgcata tatatatgca tggaacaaat ctataacaaa tatatgtata 540  
gaataaatct aaactgcac atgtgtatag atttgtaag ccaccacaag ctcgag 596

<210> 1841  
<211> 158  
<212> DNA  
<213> Homo sapiens

<400> 1841  
gaattcgcgg ccgcgtcgac ctctggagaa tctatgcgaa tcaacctttc taccttaata 60  
tctcccaaaa aatgtatagt gccttgtttt tatgtacagt ttatatacag aaaagtttgc 120  
tctgcatttt tgatgatggt ttggaacatt atctcgag 158

<210> 1842  
<211> 179  
<212> DNA  
<213> Homo sapiens

<400> 1842  
gaattcgcgg ccgcgtcgac ctaagaaaaa ctaagatata aactaccaag tgcctttaag 60  
aataaaaaata agaataagaa tacaaggag cactactctt ggctacacga aagatcttgg 120  
gattcatgac actgagggca gggagaagaa agaacaccag ccacgcagag aacctcgag 179

<210> 1843  
<211> 189  
<212> DNA  
<213> Homo sapiens

<400> 1843  
gaattcgcgg ccgcgtcgac gtctcataaa aattgaagca aacctagaag gcatgaaaca 60  
tctggcagcc aattccagat gaagcttaat tttgcctacc tttgttttat tatcttttt 120  
ctttttcaca gaggggtctt tgagcagtg tgtgagttta acctagcaat ccatggagct 180  
gaactcgag 189

<210> 1844  
<211> 217  
<212> DNA  
<213> Homo sapiens

<400> 1844  
gaattcgcgg ccgcgtcgac caggatttat ggaaagagga aggaaggcac agaactgggg 60

caaggttctg gttttgttct gttattttgt tgtcattgtt actgtttgtt tttctttttt 120  
 tgagacagag tctcgcactt gtccccagg caggagtgcg atggcgact cctggctcac 180  
 tgcaacctcc acctcccagc ttcaagcgat tctcgag 217

<210> 1845

<211> 326

<212> DNA

<213> Homo sapiens

<400> 1845

gaattcgcgg ccgcgtcgac cacaactgga ttttttagtt ataacagcca gaactggagt 60  
 cttccattcc agtgtatttt ccttcatttt aagggtgaaa taagacctgg atccaccaag 120  
 gtcttgggac agattgaaga aagacctga gcagggtgtt tttttgcctc tgaaggctgc 180  
 cttcctgaaa tctcatgagg ggactatgct tagttcctgc tgtttccaca gttcttagga 240  
 aaatgcagcc tatcttcac ctaatttctc tgtcaacttc tgctctgtca actctgagg 300  
 gacatttaaa gcaaccacag ctcgag 326

<210> 1846

<211> 189

<212> DNA

<213> Homo sapiens

<400> 1846

gaattcgcgg ccgcgtcgac acgtaattct ctgcatttgg cactacatac gagaaatata 60  
 attttaatta gtacttcaaa gcatactaaa tttctaattc attgtgagct ctattcattg 120  
 atattatttc attttgacat tgacagtaaa ataggttgaa gtatgcttat taaaaatgta 180  
 actctcgag 189

<210> 1847

<211> 180

<212> DNA

<213> Homo sapiens

<400> 1847

gaattcgcgg ccgcgtcgac caagagtatt tttatcaagg gtgagagtct aatgaagtca 60  
 atcaaattat cctatttaatt cctaaattat catagtattt ttataaatac cagaaaaaca 120  
 agcctttctg cagtatctga gaaaatgtgg tatgaccatt caatccatgg gcacctcgag 180

<210> 1848

<211> 117

<212> DNA

<213> Homo sapiens

<400> 1848

gaattcgcgg ccgcgtcgac ttgaattcta gacctgcctc gagctactta tttataatc 60  
 tttgtggcta gacctggaat gctggctttg tatttctggg cctctctccc tctcgag 117

<210> 1849

<211> 407

<212> DNA

<213> Homo sapiens

<400> 1849

gaattcgcgg ccgcgtcgac ccagctgatt ctgatctttg ttctattgtt tcagttgatt 60  
 ttgtttacag tcttttaaga ggcattggtt tgcctcaaac atttttacct gttttctttg 120  
 tgtacttaag aatgactggt ttactcctaa attgtgctct aaagtacagt cctctttctt 180  
 ggacaggatc catgctcgag aatgggtgct ctgattttga gaccaagtct ttgactatgc 240  
 actctattca caattctcaa caaccagga atgctgcaa atctctctca agacctacca 300  
 cagaaactca gttttcaaat atggggatgg aagatgttcc cctcgccacc agtaaaaagc 360  
 taagttccaa tattgaaaaa tctgtaaaag acctccggca actcgag 407

<210> 1850

<211> 175

<212> DNA

<213> Homo sapiens

<400> 1850

gaattcgcg cgcgctcgac gaaatatttc tctaagaaaa ataatttacg gattgatctc 60  
tgtcttaaaa atgacctttg catcttgctg tagccttcag caaactgcat ttgttgcttt 120  
gcaggacagg gcagtgttcg ggttgaagtc ctgtgttctg atcgggattc tcgag 175

<210> 1851

<211> 194

<212> DNA

<213> Homo sapiens

<400> 1851

gaattcgcg cgcgctcgac aacagtgaa tttattggtg ttctagaatc attaaattcg 60  
ctagagaatt tgctagtga tttggattgc tttctgaaca tttttctgtt cttctgtagt 120  
gctccctctg agcattgtag aagtgttcca gcaccctat gaagaccaca ttcattttgt 180  
cagggatact cgag 194

<210> 1852

<211> 204

<212> DNA

<213> Homo sapiens

<400> 1852

gaattcgcg cgcgctcgac tgtacttagg tgctattttt ctatgtcgtt tcctctttta 60  
tttggagaat accaaaaagt tagtatttta aacatatgct ttagttctga cactgaattt 120  
gtagttacga tatgttatct cggatatagta gtctcctctt atctgtgggt tctgttacct 180  
gtgggtcaact atgggtcccct cgag 204

<210> 1853

<211> 199

<212> DNA

<213> Homo sapiens

<400> 1853

gaattcgcg cgcgctcgac gtatatagta ggcaactcagc ataaattcgt tgaacaaaat 60  
aaataagata tagagccact ggagcacaga ggacagggtc tttctggtcg aaggcactaa 120  
ggacagtttc accgagaaga ttttgaggag agtcgagcta aaaatgagga ggattttgat 180  
agaaggatgg atactcgag 199

<210> 1854

<211> 149

<212> DNA

<213> Homo sapiens

<400> 1854

gaattcgcg cgcgctcgac ctgtatcaaa tggaacataa tataataaat gtaaatgtaa 60  
catgttataa tcatgttaca gtcattacta cccctcttat ctcttccatg acgtcttttc 120  
tgatgtttct tcattcccca ttactcgag 149

<210> 1855

<211> 177

<212> DNA

<213> Homo sapiens

<400> 1855

gaattcgcg cgcgctcgac ctttgctttg gtatgtcttc cagaaaggat aaacagtgg 60

ttttgttttg ttttgtttta ttgtttaagt gggaccactt agcttcccgt ttccttacta 120  
gttaaagaac agacattaat tttcagttga atgtattttt gcaggcatct actcgag 177

<210> 1856  
<211> 237  
<212> DNA  
<213> Homo sapiens

<400> 1856  
gaattcgcg cgcgctcgac ggacaaagaa tgcccatca ctgccctcca gaacatgcta 60  
caaaacttgt ctctgcctct tcagctcctc ttccctttcc tgagctgctc ggatctcttc 120  
ctcaatcatg gacaaagtcc gctgtttcct ggacctcagc ttgaaaggcc caaccatcac 180  
gtcagattct tgagtggcca ggagggaggc tgtgcttctc agctcagctg cctcgag 237

<210> 1857  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 1857  
gaattcgcg cgcgctcgac tgggtttgtt acagagcagg agaagcagag gttatgacag 60  
ttatgcagac tttccctcct cttttctctt tttctcttcc ccttgctttt cactgtttc 120  
ttcctgctgc cacctgggccc ttgaattcct gggctgtgaa gacatgtagc agctgcaggg 180  
tttaccacac gtgggagggc agccagtagc tgtccctctg ctttccccac tttgagaata 240  
tggcagccca actcgag 257

<210> 1858  
<211> 238  
<212> DNA  
<213> Homo sapiens

<400> 1858  
gaattcgcg cgcgctcgac cagccatact cctctcgatg ttcagatgct ctttctcttt 60  
tcttctctgc cgtgcccgtt tgccactctg ccagtctctt gctcttctgc tcttggagcc 120  
tggggttttg ggtttctacg ggtacaggat agggaggcat ggcggggcaa aagcaacact 180  
tgagtctgaa aacaggaata cctgttccca tttaggggcg caggtttcca agctcgag 238

<210> 1859  
<211> 160  
<212> DNA  
<213> Homo sapiens

<400> 1859  
gaattcgcg cgcgctcgac cagaagtatc ttggtgactt ttttgagtta agccatccat 60  
cagtatttct ttctctgggg tagtagttaa catgaatttt aatctttgtt ttgctttgct 120  
aataactggt atattttcag gctatgcccc cccactcgag 160

<210> 1860  
<211> 190  
<212> DNA  
<213> Homo sapiens

<400> 1860  
gaattcgcg cgcgctcgac tatacettca cccaagctct tctctctcct taagtcatcc 60  
gtctacagtc agtccccacc caccagctg ctcttctctc tcttctctat acaaaacttg 120  
agtgtcatct cctccaagaa gacttttcaa ctctgttaga ccaatgtttc tcaaaccttt 180  
tttactcgag 190

<210> 1861  
<211> 152

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1861

```

gaattcgcgg ccgcgtcgac tgcttctgca aaactattac tgttgataaa gttcttttcc 60
attgcttaat tttcttctct gttaacagtt acaaagaagt ttttctgag atggacatga 120
tggctcacac atgtagtccc agcttactcg ag                                     152

```

&lt;210&gt; 1862

&lt;211&gt; 111

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1862

```

gaattcgcgg ccgcgtcgac gagtgggcag ctgtgtgttc taaattgggt catgttgggc 60
aaagggctac ttttaaaaat tatgttaaaa gttcttacat atccactcga g          111

```

&lt;210&gt; 1863

&lt;211&gt; 199

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1863

```

gaattcgcgg ccgcgtcgac caattcttag caaaggggaa tatcgaattc agattttgaa 60
aaaataagtc atcatgcttc ctaaaataag acagcttctc cctctaaactg ctctctctgc 120
tctgggtattc tatctaatca taaaccagc tttattattc atttcaactc ctgccaaaga 180
catgaggtcg gcactcgag                                     199

```

&lt;210&gt; 1864

&lt;211&gt; 257

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1864

```

gaattcgcgg ccgtgtcgac attgaaagct agaagaaaag gtgtacttgc aagaaacctc 60
aggacttgag taacagcaac atggtaagtt ttctaagttt tcttttcgtc tcccatatac 120
gctgggctgt gctggaatca ccaacaggca cagaaaaaat gacaacaaaa caacaacaaa 180
acccccaaga atatcctgtt ctcttttgcc aaagttcagg aaaggggagc cccaacagag 240
accagttaca gtcgag                                     257

```

&lt;210&gt; 1865

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1865

```

gaattcgcgg ccgcgtcgac gacagaaact gagaaaatga cacacttggg gagtttggtc 60
gaattaggtc tgtcttctac gtttagtaca atcctcacc ccaatgttccaa agaaatattt 120
atggtggcac tcgag                                     135

```

&lt;210&gt; 1866

&lt;211&gt; 189

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1866

```

gaattcgcgg ccgcgtcgac cccttccttg cacatagcag gtacactcct acttcatggc 60
tttttgcaat tgctgtttct tctgtctaca atgctcttcc tccagaaatc catgattctt 120
tcctgtctc ctttgagtct ttgctttaac caaatattat cttttcagat aggtcttccc 180
tgcttcgag                                     189

```

<210> 1867  
<211> 237  
<212> DNA  
<213> Homo sapiens

<400> 1867  
gaattcgcgg cgcgctcgac aacatctgta ggaggcctac cctttactaa ttttcttcct 60  
acttacttag ggggtgtgccc ttgtgattca gttttgttac tttaaaaata attacaaaca 120  
aatctatttt tctcactaaa gtaccaaata aatcagaatc tttcactctt ttaaaacaga 180  
cccttcgta tgtttgtctc ttgtcttttc ttgtctgttt atgcaattcc actcgag 237

<210> 1868  
<211> 307  
<212> DNA  
<213> Homo sapiens

<400> 1868  
gaattcgcgg cgcgctcgac ctttctttat gttgttgtga cttctgatgt ctacaccga 60  
agggtatatt atgaacagaa gaaatattat tatgcttttt ttttttgaga tgggtgtctca 120  
ctgtgtcacc cagactggaa ttcagtggca tgatttcagc tcaactgaaac ctctgccacc 180  
agggttcaag cgattctctt ccttcagcat cctgagtagc tgggattaca gatgcctgcc 240  
actgcacacg tttgagcaga ccaattatga ggcaattctc ctaactctgc ttccagaagg 300  
tctcgag 307

<210> 1869  
<211> 179  
<212> DNA  
<213> Homo sapiens

<400> 1869  
gaattcgcgg cgcgctcgac aaatttaatt tttccttttg ttacttttca tttgcctcta 60  
attttgcttg ctcatatttc tggccaatgt acagcctcat atttttcaga gtaatacaga 120  
tacttgttct cattccgtat atgagcacia gtaaggtttc agagcaacac aactcgag 179

<210> 1870  
<211> 200  
<212> DNA  
<213> Homo sapiens

<400> 1870  
gaattcgcgg cgcgctcgac cgctatatga ttttctgtct tttcagcctg ttttcttct 60  
cctcagccac ccttaccttc tgtttttggt tcctttttat tctcattctt ctggetgcat 120  
tctcttctcc agtttcatgt ctccccctct cctcttgctc tgtacccctt ggcccccaag 180  
ttctctccca accactcgag 200

<210> 1871  
<211> 137  
<212> DNA  
<213> Homo sapiens

<400> 1871  
gaattcggcc aaagaggcct acaattcttt cgaggactgc gaagagggga aaaaacgacg 60  
agatgaaatt gtacttggtc gcagccgtgc tgatgtttgt acttgctgta cacacagagg 120  
ccccggagga actcgag 137

<210> 1872  
<211> 196  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 1872

gaattcgcg cgcgctcgac cattatctcc ccaccccaga tttcttctga cttgaattcc 60  
tgctactctc tttttgtttg ctctgtctta accctactgg ctgccttcta cctctgggtc 120  
ttcgactgc tgtttcctta gccttaaacc ttcttcagcc gcttacacca tgaacctttt 180  
catatcctta ctcgag 196

&lt;210&gt; 1873

&lt;211&gt; 174

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1873

gaattcgcg cgcgctcgac gcatgagcaa gaaactgcct gctttacaat tgccattttt 60  
atTTTTTTaa aataaactg atattttccc cactctcaa ttgtttttaa tttttatttg 120  
tggatatacc attttattat gaaaatctat tttatttata cacattccct cgag 174

&lt;210&gt; 1874

&lt;211&gt; 174

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1874

gaattcgcg cgcgctcgac gaagtctgat cactcagga tggtgaaacc gagttcttct 60  
ggagaacata ttggaataa taaagttagt tgctgatca gttgtttcgt tactctgtct 120  
ttttcgttgt tggtgttag atggagtttc gttcttggtc cccacaagct cgag 174

&lt;210&gt; 1875

&lt;211&gt; 106

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1875

gaattcgcg cgcgctcgac attttatctc acctacctca aatatttctt ttttttttaa 60  
tttaaaaaag atgaaacact tgaccaattt gcgtatcatc ctcgag 106

&lt;210&gt; 1876

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1876

gaattcgcg cgcgctcgac tgctcgaaac gcttcccat attttctatt ggaaaaataa 60  
ggtttgtttt ccagtaagat atttcatttt ttaaaaaaat ctgcttctac tcaaggctgg 120  
ggttctattt gtttttaaat gaagcccacc aaacctccca agtgcaactc agattttacat 180  
ctggctaatac ctgcaaatat gaccaaccaa attcatgctg tttattttat ttattttttt 240  
ctcgag 246

&lt;210&gt; 1877

&lt;211&gt; 236

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1877

gaattcgcg cgcgctcgac tattgaaaaa tattatttat aagtacttgc cttatttctt 60  
tgaagtctgt ttatttttagg aggatttgtt ttcacaagaa ctaaagagtt actaaggaaa 120  
gataatttgt tttccaacac agtgtatcca aaataatttc tgtggaatat taatattgaa 180  
ttgtcatgga aaattctaaa ctagaatttt attacacgaa agcaacaaca ctcgag 236

&lt;210&gt; 1878

&lt;211&gt; 385

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1878

```

gaattcgcg cgcgctcgac ggctattatt ctcattattg atagggttcc ccaagaatta 60
tctgtttcca cagacactgc atagggttcca ttagttgctg tggaaagtga agtaatttat 120
tctaggaact gtgactgtgt gctgtgaaaa gattgcattt tgtaacata atttctacgg 180
cgttctgttg atggggcctc tcaataactt cttggacctg ttcccttcac ttcttctcca 240
ctgtcttagt tcacaccctt gcctgcactt ccatgttttt agttgtttc cattcatcca 300
tctcgcttat ggctccctga gtgctttttc tgaacaaaac ctgatcattt cacttcctgg 360
aacaccctgc cacataccac tcgag                                     385

```

&lt;210&gt; 1879

&lt;211&gt; 255

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1879

```

gaattcgcg cgcgctcgac gcctgttata cttccaagtg gagatgttga gtagacagat 60
ggatgtatga atggggcagg gggatccctg aaggaggagg tataaagggt ggagtcatta 120
acatacagac agtacttgat gtcataagag atgatcagat aattactaag aggcaaaata 180
tagatgagaa aaggattgag ccgtgagcac tcccaccctg aaagtctggg gagttgagaa 240
tgaccagac tcgag                                             255

```

&lt;210&gt; 1880

&lt;211&gt; 170

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1880

```

gaattcgcg cgcgctcgac ttatggcctt ttagtaatat gtttaaaacta acatgttctt 60
tgtacattgt tttctgtaca acaacgtatt tggccctaaa ctgcatgggt cagtttagaa 120
cacacatcca tcatgtaaga tacaagcagt atgatggagg cgctctcgag 170

```

&lt;210&gt; 1881

&lt;211&gt; 647

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1881

```

gaattcgcg cgcgctcgac agattgacca cattgatcac aatatgggag tctggagaac 60
ggttaccatc ctcagcagcc tcctctacta caccaacttc atcttcgaca cttctgtgg 120
cttcagtagt ttcaaaagggt ggcttttcca ctggagttgc ttcaacttagc tctacaatca 180
acccatgttg acatttattc agaacagctg gggatcaacc gttaaacctg tccacagtgt 240
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attcagaatt tgggtggttg gggacacttg gtacaccac agccttagcc gcacatcccc 360
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gagcaacctt ctttccacca ttactgggaa ttccaccact atttgctccc ccagcccaga 480
atcatgatcc ttcttcattc cattcaagga cttcgggaaa aagtaatcga aatgggtccc 540
aaaaaggtgt aaatgggtca ataaatggaa gtaatacatc atctgtaatt ggtatcaaca 600
catctgtact atccactact gcttcaaggt ccatgggact cctcgag 647

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&lt;210&gt; 1882

&lt;211&gt; 545

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1882

```

gaattcgcg cgcgctcgac cttgagaaaa accttcataa gcagaatcag agaaaaactt 60
ttggacattg tactgtcttt aggagttcac agctttccaa atttgataaa ctaaaaatcc 120

```

```

aagctctacc tggtaggcag cttgtggctg tggtcagaga aagctttaat cataagtagg 180
gtgattggta gaactccttt cctcctaatz ttctcttaaa ctgcctgaag tttttcaatt 240
tactttttca tagtacccca aattctacta gagataagtt tgtgggaaga gtgccaaata 300
gaaggtacag tacaagtaga aggcaaggag gtagcatatg tatctggaaa acagtaaata 360
aatcagtgca tgtaactgaa aaatataccg tcagccacac tgctctccaa aactgtattt 420
ccagcgttct cctggacctt ctgggcactt ctaattgctt attattatta ttttcagaaa 480
gtgtctcact ctgatgcagt ggcgcgatct ccgctcacca caaccttcac caaccaggc 540
tcgag 545

```

&lt;210&gt; 1883

&lt;211&gt; 175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1883

```

gaattcgcgg ccgcgtcgac tgagtccttt ggtaacggtc ataatactca caaggaaata 60
aatattcagt tccatggcat ttgcaagaca catgttcttt aggacagtta atattatgac 120
acatctgttt tattttgtta ctaaggcagc ctatgttaaa gggctcgtc tcgag 175

```

&lt;210&gt; 1884

&lt;211&gt; 336

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1884

```

gaattcgcgg ccgcgtcgac cctgtgactt ctcaccagct tcctttccac ataggccgct 60
gcttctcttc ttccaagggt ttcccccgtt tttgcctcct ggagggttga tcctgggtgt 120
taggagactg ggttcgggac acattcccca cagaaggata gcaggacctt agaagatctt 180
ttctcttctt ttccctgggtt cctcttgctt gcaagagggt tgaataggat ggtctctaaa 240
atcctgttgt ttttctgggt tatattaacc caggccataa tgataagaac ctgctctgaa 300
ttcacaacat gtatttatac aacagcaaag ctcgag 336

```

&lt;210&gt; 1885

&lt;211&gt; 536

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1885

```

gaattcgcgg ccgcgtcgac aaggcatcca aaagataggt aaatccctac tggactttgc 60
tgggtgtctt gttgcatagt taccgtggag taagtaatcc tagttattta tatatattta 120
tcatttaact gtttgccttc ccacaaatgg aaccactttt tatgtccata atcctatttt 180
caccaatatt gggggtccag cttcaatacc aagtgttaaa acagattcaa cagttagcca 240
cgctaactaa ctttaacttct tgttacattt gtacctcagg atcactatca gctgaagttt 300
taccattacc attagaagat atagtcaagg tcaatgccag agtcaactgt gccacccagt 360
cagaagttac atatcccagt ccagctgtgg aaagcttatt cctaacagtc ttatctcaga 420
tcataagaaa caaccctaat ttaaatttta caaatgcccc aaatcctgta aggggttttc 480
acaacctaac ctcagacagc caattcccaa ttgttttcac ttcccacat ctcgag 536

```

&lt;210&gt; 1886

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1886

```

gaattcgcgg ccgcgtcgac cacagaaatz cagggacat tgccttcttc aggcctctgc 60
ttctctgcta gccctcttgg agctgtgact cagaaaacca aaacttctg tgctaagtgc 120
cccccaaatg ctctctgtgt caataacact cactgcacct gcaaccatgg atatacttct 180
ggatctgggc agaaactatt cacattcccc ttggagacat gtaacgacat taatgaatgt 240
acaccaccct atagtgtata ttgtggactt aacgctgtgt gttacaatgt cgaagggaagt 300
ttctactgtc aatgtgtccc aggatataga ctgcattctg ggaatgaaca attcagtaat 360

```

tccaatgaga acacctgtca ggacaccacc tcctcaatgg caaccctcga g 411

<210> 1887

<211> 130

<212> DNA

<213> Homo sapiens

<400> 1887

gaattcgcgg ccgcgtcgac gtgtgtgtag gatgccacaa acaaacccca gggtcgcggct 60  
gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgttaga tgccacacac aaaccctggg 120  
gccgctcgag 130

<210> 1888

<211> 495

<212> DNA

<213> Homo sapiens

<400> 1888

gaattcgcgg ccgcgtcgac taaaccgcct cctgtgtgct tcatggccat ggtcctttct 60  
gcctgtgttt tttctttttt ttctcaaccg tctcttttct ggtccctta tttctctgtc 120  
tgctctccgg tccctctttt gccttgggtg tttctctctt gccgtccgt ccacacgctt 180  
cccgggttcc tgcccgccca gggcattgcc acagggaagt accacgccgc ggtgctcacc 240  
aacagcgtcg agtgggaggg cgcctgtgtg aaggcgggca ggaagtgtgg ggacctggtg 300  
caccgcgtgg tctactgccc cgagctgcac ttcagcgagt tcacctcagc tgtggcggac 360  
atgaagaact cagtggcggg aggtttggag cctcgaacct ggagcctgcc acatgggtgg 420  
agccgggcag gcggagccct gccttcaggg tgctggtgca cccagggagc tggggccccc 480  
cagaagcaac tcgag 495

<210> 1889

<211> 363

<212> DNA

<213> Homo sapiens

<400> 1889

gaattcgcgg ccgcgtcgac gccttgacac acttatagaa tgggtggagag aaaagaatgg 60  
ttccttttgt tcccggctta ttatcgatt agacagcgaa aattcaacct cttgggtgaa 120  
agaagtgagg aaaattaatg accagtatat tgcagtgcga ggagcagagt tgataaaaaac 180  
agtagatatt gaagaagctg acccgccaca gctaggtgac ttacaaaaag actgggtaga 240  
atataactgc aactccagta ataacatctg ctggactgaa aaggagacga cagtgaagc 300  
agtatatggt gtgtcaaaaac ggtggagtga ctacactctg catttgccaa caggaagctc 360  
gag 363

<210> 1890

<211> 363

<212> DNA

<213> Homo sapiens

<400> 1890

gaattcgcgg ccgcgtcgac gcagacgatt tgtagttacc tagattgtga acgatcttgt 60  
gaagctgaca ttttgaagaa caccagttat aagggtttt ttcagttaat gtgcagtaaa 120  
agtgtgtgtg tttatttcca taaaatttgc tggaaaaagt tcaagaattt aaagtatcca 180  
ggtgaaaatg atcaggtatt atattcgttc ttaaaactac aacagcattt cttcctctac 240  
cctttctctt tttgttctct tccccatcgt ttcttcctgt tcataacttc cctcctgctt 300  
tttaacttct cctttttttc tttttcttta acttccttct ttgttcttcc ccaatctctc 360  
gag 363

<210> 1891

<211> 425

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1891

```

gaattcgcgg ccgcgtcgac gccggaggag aaggaaggga aggggcatca cagggcaaag 60
gctgggaggg ctcaagtctc aagatagaga ggccacggcc agctgctcac ccaaagagaa 120
agcactttta actctagagg tacccaacag gcaatataag atggatatta aggtcgtaga 180
ctctagagac aattggaact gaagtctaaa cagctagcag gaacttagac aagtcaatta 240
atcattctaa gcttgcttcc ttgtctgcag aatggaatag taatagcctc atcatagtgt 300
tactgtgaaa ggtaaatggt tataacatgc ttactaaaat gcctgttttt atagtaagt 360
ctcaataact agaagctatt actcattcat gtattcaata catattactg agtgcttate 420
tcgag 425

```

&lt;210&gt; 1892

&lt;211&gt; 304

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1892

```

gaattcgcgg ccgcgtcgac cctaaaccgt cgattgaatt ctataacagt gcaataaggg 60
aaataacatg caggatatct actttattat ttctctacac cttcatggg ggtgggggct 120
acagatgggt cctcactggt gcatgacatg tccgggagtg gctgatgttg cctgttggac 180
tgaaacctgt gtgggtattg agacacactc ccaccccatc aggcctctgt gcacctacc 240
tggatccaga ccaccacagg acatcaggga agtttgctg agaccccaag tgcgcagtct 300
cgag 304

```

&lt;210&gt; 1893

&lt;211&gt; 229

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1893

```

gaattcgcgg ccgcgtcgac ccgtctccca catcctttct gagtggatgc gcttgtcttt 60
ctgcttgaac tctagtttga ttttctctgt gctggggtca ggggagtcct aactgctgac 120
agagaatgag gacttttcca cccacacccc cccacttctt gtttctgaat gctgctgtcg 180
ggctgcctgg gccaggctct atggggccca gctggaggct tccctcgag 229

```

&lt;210&gt; 1894

&lt;211&gt; 437

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1894

```

gaattcgcgg ccgcgtcgac cctgcccag cctgttttat acacaccccc tttatatagg 60
ttgtccctc tatgtccttt cttecccttt ccttttcac ttgggttcaa aatcatttgg 120
ctatgagcaa gttataacta taactggacc tgacttttgg caatattcac aactatttag 180
gagttcttgc aaagacagaa aaatcaacct acaagttggt ttcaaaatac tactcatttt 240
ctttagttag cattccacgt ttttagacat ttaattaaat atttatgttc aatttgggtt 300
cgtttgtttg tttgtgttt tttttgagac aatgtctcgc tctgttgctt aggctggagg 360
gcagtgggtat gatcatggct cactgcagcc ttgacctccc aggtccagc aatcctccca 420
cttcagccac gctcgag 437

```

&lt;210&gt; 1895

&lt;211&gt; 279

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1895

```

gaattcgcgg ccgcgtcgac gtaactaaat acctctttac ttactgcta tttataaggt 60
cccttttggg tttgtttat taataatcat ctagaattca aataaatgca tatgccactc 120
ttgccactcc tcttcagcat agtactagaa gtcctagcca gagcagtcag acaagagaaa 180
gaaataaagg gcatccaaat cggtaaagag gaagtcaaac tgtcagtggt tgccgactat 240
atgatcattt accttcaaaa ccctaaggat aacctcgag 279

```

<210> 1896  
 <211> 252  
 <212> DNA  
 <213> Homo sapiens

<400> 1896  
 gaattcgcgg ccgcgctcgac aggaaccaca gcaatgaatg gctttgcatc cttgcttcga 60  
 agaaaccaat ttatcctcct ggtactatct cttttgcaaa ttcagagtct gggctctggat 120  
 attgatagcc gtcctaccgc tgaagtctgt gccacacaca caatttcacc aggacccaaa 180  
 ggagatgatg gtgaaaaagg agatccagga gaagagggaa agcatggcaa agtgggacac 240  
 atggggctcg ag 252

<210> 1897  
 <211> 127  
 <212> DNA  
 <213> Homo sapiens

<400> 1897  
 gaattcgcgg ccgcgctcgac cctgtcctgt gctaggtctt taacgtcctt cccagatgtt 60  
 atgtcccttc ccttggtggc tgctgcttcc tgccacatct taccttgccg ttcgcaccca 120  
 tctcgag 127

<210> 1898  
 <211> 441  
 <212> DNA  
 <213> Homo sapiens

<400> 1898  
 gaattcgcgg ccgcgctcgac aaataaaca cttagtact cttagatttc agaaatgcct 60  
 tttaggatgg tcaacttgtt ttggggacaa atggcaagca gttatttctg gagaggtagt 120  
 gaacatggcg attccactca ctggctgggt gggctcctcc ttccttctcc ttcctcgagag 180  
 agccccctgt tgagctctgg cttggccctt gaagtgtctc cggctgccct ggggaacttt 240  
 ccctggggtc cacctgctga ttgttcaaat ggcaagccag cagccgcgtc aacacctgct 300  
 cctcacacac acgtgctctg tcacctctg cagctgcgtc tgcgcccccg ccacacacac 360  
 actgcctctc accctctgcc actaatctgg ctccctcccc tgagccctc ctccctgacc 420  
 tgaccagggg tccctctcga g 441

<210> 1899  
 <211> 313  
 <212> DNA  
 <213> Homo sapiens

<400> 1899  
 gaattcgcgg ccgcgctcgac gttgaattct agcgtctgtg gagaagaaag tcatagagtt 60  
 atcagaactt tgaggccttt ggttgcatat ggagtttatc ggatatagat tttttgttgc 120  
 ttggtttttc tcagtctaag tgataataaa aatgataact aacatataca tagcacaatg 180  
 cctggcattt tcaacatgtt ttccatctac tgagatattt aacttgccaa gccatcttag 240  
 gtatacagtt acagtagtcc tctgccttat ctggtttcag ttaccacacag tcaaccacgg 300  
 tccggaactc gag 313

<210> 1900  
 <211> 237  
 <212> DNA  
 <213> Homo sapiens

<400> 1900  
 gaattcgcgg ccgcgctcgac accgtcgatt gaattctaga cctgcctcga gccatccgcc 60  
 caccacacac cttcttattt tgctgcctag gtctgtctc tcaatttttt taaaaaaaaa 120  
 ttgtattaga atatgcataa cataaaagtt accattttta ccatcatggg gctttgtttg 180  
 tttgttttgt ttgtttgttg ttgagacag agtcttgctc tatcaccacac gctcgag 237

&lt;210&gt; 1901

&lt;211&gt; 315

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1901

```

gaattcgcgg ccgcgtcgac gtgcattcgg tatacaccac gggggccctg gaaccaagac 60
ccctctcttc tgctttgctt actggctgct gtgactctta ggagctctcc tacttggtcg 120
gcgggtcctt cccagtctcc tttgctgctt catcctttgc tctgcctctt aatgttagcc 180
agcatccagg gctcattcct gggtcctctt ctattctctc tacacatgaa ccctggggct 240
ctctcccagt ccctggttgt aaataccagc tataggccta tgacttccca gtctcaatct 300
ccagccagac tcgag                                     315

```

&lt;210&gt; 1902

&lt;211&gt; 304

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1902

```

gaattcgcgg ccgcgtcgac gtgagaatca cttgaacctg ggagacagaa gttgaagtga 60
ccccagatca caccactgca ctccagcctg ggcaacgagc aaaactccat ctcagaaaaa 120
aagattgggg atttaatttt cgctaggctt tacgtcctta gaagataaga tctagtctct 180
ttttttctgt cttttaacat ttatgtttta aatatacaag gaatgcagaa tgcattatta 240
tgctgttttt atgcagtttt atcttttgag tgccttagat gcacttctga ccccatccct 300
cgag                                     304

```

&lt;210&gt; 1903

&lt;211&gt; 364

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 1903

```

gaattcggcc aaagaggcct aattttaaag aacacaaaac tattaatgat taatatgtta 60
aaatgtacaa tggtagttaa atacttttct tgacttaatt actgctttga actttattaa 120
tgtagtattt ttgtaggcat ttttggtgat tcttttacta agtattttta atttaacgaa 180
ttcctagggt gctgtgtgct taatggatac ccagggtgcc tttgatagcc agtcaaccat 240
taaagactgt gcgacagtgt ttgctctgag cactatgacc agctctgtgc aggtatataa 300
tttgtctcag aatattcaag aagatgatct tcaacatcta cagttattta cagagttgct 360
cgag                                     364

```

&lt;210&gt; 1904

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 1904

```

gaattcggcc aaagaggcct agggaggaaa gtttcatcag ccctctggtg ctctactgcg 60
ttctggctgc cactccaact gctattatct tcattggtga aatatccatg tatttcataa 120
agtcaacaag ggagtcctct attgctgagg agaaaatgat cctgacaggg gactgctgct 180
acctgagccc cttactccga aggatcatca ggttcacggt ggtatttgca ttggactttt 240
ttgctactga catttttgta aacgcggggc aagtcgtcac tggtcaccta acaccatact 300
tcctgacagt gtgccagcca aactatacca gtacagactg ccgggcacac caacagtcca 360
tcaacaatgg caacatctgc actggggacc tgggaagtgt agaaaaagct cggaggtcct 420
ttccctccaa acatgctgct ctgagcatct actccgcctt atatgccacg atgtacatca 480
caagcacaat caaactcgag                                     500

```

&lt;210&gt; 1905

&lt;211&gt; 514

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 1905

```

gaattcggcc aaagaggcct atttcatcat ggagctctcg cggcggatct gtctcgtgca 60
actgtggctg ctgctcctat cgttcttact gggcttcagc ggggatctg ccatccactg 120
gcgggaaccc gaaggcaagg aagtatggga ttatgtgact gtccgaaagg atgccacat 180
gttctggttg ctctattatg ccaccaaccc ttgcaagaac ttttcagagc tgcccctggg 240
catgtggctt caggggtggc cgggtgggtt tagcactgga ttgggaaact ttgaggaaat 300
tgccctctt gacacccaac tcaagcctcg aaataccacc tggctgcagt gggccagtct 360
cctgtttgtg gataatcccg tgggcacggg cttcagctac gtcaacacaa cagatgccta 420
cgcaaaggac ctggacacgg tggcttccga catgatggtt ctccctgaaat ccttctttga 480
ttgccataaa gaattccaga cgggtcaact cgag 514

```

&lt;210&gt; 1906

&lt;211&gt; 444

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1906

```

gaattcggac tactacaggt ggcctacacg ctttttctta gcctgaagat ctcgtgctgc 60
atgatgagtc ttaagacggt ggggtgatcca tttttatcca gtttggttaca tggaaatcgt 120
accagcgatt ttgaacgcac gtctgtgagg tgggaaccaga aggctgtttg aactgtggga 180
ttggtgtttc caaagaatga gagtcttttg tatgagcgag aacaagagcg tatgcagaga 240
ccggtgtgtc attttggaat actaagttgt caatgtgtct ctcaatccag tggcaatgat 300
gagcgtgtgc agagagcaat gggagcaagt aacgtacgaa tgtttcttgc attcaaagga 360
ctttagctta tttgaaagac tgaggcraaa tctatttgtc tgaaacagtt tgtacattta 420
ttttcagcct gccctaaact cgag 444

```

&lt;210&gt; 1907

&lt;211&gt; 337

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1907

```

gaattcggac tactacaggt gggaaaagca gaagtatctg gaagagaaaa tgacacaaag 60
tgtcttatcc aagattatca aaaccggata tgcagcactc caactggagt acttcttcac 120
cgccggcccc gatgaagtac gcgcctggac tatcgagaaa gggacaaagg ctccctcaggc 180
tgaggcaag atccacacag atttcgagaa ggggtttatt atggcggaag taatgaaatt 240
tgacgatttc aaagaagaag gcacagaggc atctgtcaag gctgcaggaa aatacagaca 300
acaaggcaaa aattacacag tagaagacga cctcgag 337

```

&lt;210&gt; 1908

&lt;211&gt; 352

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1908

```

gaattcggac tactacaggt gcacatacag gttgggcaga ataacaatgt ctggaacaag 60
gaaagtggac tcattactgc tactgggtcat acctggactg gtgcttctct tattacccaa 120
tgcttactgt gcttcgtgtg agcctgtgctg gattcccatg tgcaaatcta tgccatggaa 180
catgaccaag atgcccacac atctccacca cagcactcaa gccaatgcc aacctggcaat 240
tgaacagttt gaaggtttgc tgaccactga atgtagccag gaccttttgt tctttctgtg 300
tgccatgtat gcccctattt gtaccatcga tttccagcac gaaccactcg ag 352

```

&lt;210&gt; 1909

&lt;211&gt; 261

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1909

```

gaattcggac tactacaggt gcttctgact attatggcta tgacgattac tatgattatt 60
atggctacga ttaccataat taccgtgggt gatgatgata tcctttctat ggttacgaag 120

```

actttcaagt cggagctaga ggcaggggtg gtagaggagc aaggggtgct gctccatcca 180  
 gaggtcgcgg ggctgttctt ccccgtagga gagccggtta ttcacagaga ggaggcccag 240  
 gatcagcaag aggtgctcga g 261

<210> 1910

<211> 408

<212> DNA

<213> *Xenopus* sp.

<400> 1910

gaattcggac tactacaggt ggtggttgca gcatggagct tgaagagttc gagcgtaata 60  
 attcccagag tcgcctactg agctctccgg taccggagat atgtcggact gaggactgct 120  
 gccttgggat agatgaggcc ggacggggac ccgtgttggg tcctatgggt tatggaatct 180  
 gctactgtcc tgtggcccga aagaaggacc ttcaagattc aaaggtggca gactccaaga 240  
 cactgagtga agctgatagg gaacgactgt ttgagaaatt aaatggttct tcagattaca 300  
 tcggctgggc cttgcatata ctgtcaccaa atatcatttc caccagcagc cagcagaggg 360  
 caaaatacaa cctgaatgct ttatcccatg acaccgcgaa gactcgag 408

<210> 1911

<211> 444

<212> DNA

<213> *Xenopus* sp.

<400> 1911

gaattcggac tactacaggt ggagtcagac accatggtga agattgcgtt cagttcggcc 60  
 ttgcgcgcca aaaaacctag caaggacgtc gaggccttgg tggcagaaac ggatactgag 120  
 gttgcagctc aagggactga aaattcaact ggaagatgcc tgcttacact gttgggcctt 180  
 gctttcatct tagctggact aatagttggt ggtgcttgta tctataaata ctttatgccc 240  
 aggcacaagc tctatgaagg agtaatgtct tattccgagc agcatgatct tgttgaggag 300  
 ccttattacc ttctgtctc agaagaagcc gatatccgag aagatgacaa tattgcactt 360  
 ataactgttc ctgtaccaa ctttgcagaa agtgateccag cagcgatact tcatgatttt 420  
 gataaacttc tgacagacct cgag 444

<210> 1912

<211> 349

<212> DNA

<213> *Xenopus* sp.

<400> 1912

gaattcggac tactacaggt gcgagatata gctgaaaatg cggtagcctta gtgcagctgg 60  
 gctgcttggt ctctctgtat gtcttctatt tcttactcca gggctctgccg acacaggact 120  
 tggctcgagga tttggggatc atatccattg gagaactctg gatgatggga agaaggaagc 180  
 agctgctagc ggcttacctc ttatgctagt gatccacaag acatgggtgcg gagcatgcaa 240  
 agcattaaag ccaaaatttg cagagagcaa ggagatttca gaactgtcgc ataactttgt 300  
 gatggttaac ttggaggatg aggaggaacc aaaagatgat gccctcgag 349

<210> 1913

<211> 282

<212> DNA

<213> *Xenopus* sp.

<400> 1913

gaattcggac tactacaggt gtgagaagtc aacatggcag agttgtggct atcactttct 60  
 tgcattgtct ccttgcttct actgacaaat tcatctccac ttaccttcca ggaaagaatg 120  
 ctccctaaag ccttggggct gaacaccaga ccaaacccca ttgctccagc tcctgtacct 180  
 aaatctttaa gagacatttt tgagaagggg ataaaccagg acaatccctg catgatggaa 240  
 ggtttcggag tacctggaaa tattgtccgc attccactcg ag 282

<210> 1914

<211> 450

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1914

```

gaattcccat agcaacaaac agtagaggat gttgcagttt cgacctctca gaaacgcaca 60
agttctgcaa cactgaacca gccagctagc actccacagg gcccaaagtc tcttatggaa 120
gtaaacaaatg acagaatgca tctgatttta ggcatcagca ttcagttctt ctgtgcacca 180
cgacctgagg aacccattga acatgtgact gcgtgtcttc aggttttaca tatactgctg 240
gaggtcccat ttccagaag tcataattgca gaagaccagg ttattggagt ggagcttttg 300
aatgtctctc atgccttct cttaacttgg gatacctctt ctgtgcaact gctggtgact 360
actgtagttc aacagatagt gagggctgct caacacaata tacaggagca aagaaatgct 420
caaaataaag atgacacaag cgaactcgag                                450

```

&lt;210&gt; 1915

&lt;211&gt; 125

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1915

```

gaattcccat agcaacaaac agtaattccc atagcaacaa acagtagttc ccatagcaac 60
aaacagtaat tcccatagca acaaacagta attcccatag caacaaacag tatggcggtc 120
tcgag                                125

```

&lt;210&gt; 1916

&lt;211&gt; 461

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1916

```

gaattcccat agcaacaaac agtaggagaa agaagtgcaa cactaacaag accaactgac 60
agatcggttg gccctattcc aatatcgcca actcaaggat gaagtgcatt gttctctctg 120
tggtttgctt ctctatcgga tgggttctact ccaacccac aaaaaaagtt aacattgcaa 180
aatttgagga agcttcacag agctcagatt acagacctga gtacaatgct gctgctgcta 240
tcgatgggtga tagagactca aatatgatgg cgggttcatg ctcccttact ggtaacgaca 300
agccatcttg gtggcagttg aacctaaagc acaggtacaa agtgagagaag gtggtgatag 360
tgaacagagg agactgctgc agtgagcgcc ttttgggagc ccagatccgt gttggattca 420
cagccaatct gaagaaccca ctatgtggca cccacctcga g                                461

```

&lt;210&gt; 1917

&lt;211&gt; 446

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1917

```

gaattcccat agcaacaaac agtagggtaa ccaaggcacg gaagtctggg gaatgaaagt 60
ctgaaggaaac actgttacca atattaaaac agtcactttc cttccagcct aacaatattt 120
tttatcatta aacaaattgt cagacgaaca ctattacaaa cgtggactaa agaagcagaa 180
acgtgacttt tctttttgaa gcccagcctg caatgaagca tcaacatatt ctagtattat 240
ttttgctttc catggctgtg attagttttt tggtagatcg caggattgtt aagattccca 300
catttatata tttgaagtca aattgctgag aggtgacaaa agaagaaaca gaacttcaaa 360
aagaagtga aacaatcttc aatgaagtag acagttcaat tccgaagatc agcttcactc 420
actttgataa cacaacagtc ctcgag                                446

```

&lt;210&gt; 1918

&lt;211&gt; 261

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1918

```

gaattcccat agcaacaaac agtacttggc ggtctcgagc ctttcaggca gttcccagac 60

```

```

atcttcagtt cgcgcagcgt gtgaatatcc tgaaccaaga acttagcaga gggccctctg 120
ggggagttgg ataaccacat atacagggtcc tgcttcttct tggcttcaaa atagatgcac 180
ttattacagt tcttcatttc acagacctca tttaccacaa acagcttgct cttacgggtcc 240
atcttcggtt ctgctctcga g                                     261

```

<210> 1919

<211> 383

<212> DNA

<213> *Xenopus* sp.

<400> 1919

```

gaattcccat agcaacaaac agtagagagg gaccacattt actcccatth actcctctgg 60
ctgattcatc tacctgtgac ttttaaggaaa gagcaagttc tccataagga aggaacatgg 120
agcctctccc acttctctca ctgttccctat tggcagttgt ccatthttgag cggggcaaat 180
ctcaagaggg agttcagagc cgcattgttg gaggacacga tgcttcaaag ggaatgttcc 240
cgtggcaggt cagcctgagg taccaaaaata aacacgcgtg tgggtgcgact ctcatcagct 300
caactatat cctgacagct gcacactgct tccccctaga ccacataatg agtgattact 360
ccgtaaacct gggggtcctc gag                                     383

```

<210> 1920

<211> 478

<212> DNA

<213> *Xenopus* sp.

<400> 1920

```

gaattcccat agcaacaaac agtagccaga caagttgggc tcaggttgta cagacaaaat 60
ggcagagaaa gggctctcgg ggatgggtgac cttcattgtg tttgggaata ttgttatatt 120
gctctctggc cttgcgctgt ttgcagagac aatctgggca accaccgacc cctacaaggt 180
ctatcctatt ctgggggtga ctgggaaaga tgacgttttt gccggcggct ggattgccat 240
attctgttga ttctcattct ttatacttgg agtctttggc atcctcgcag tgcagagagg 300
gagtcgcact atggttctga cgtacttggg gctgatgatg atcgtctata tatttgaatg 360
cgctctctgt atcacttctt tcacacacag agattacatg atcaactcca atgtgattaa 420
gggtcagatg ttgacgtact actcagacag cagcaccccc cagggaaggg agctcgag 478

```

<210> 1921

<211> 360

<212> DNA

<213> *Xenopus* sp.

<400> 1921

```

gaattcccat agcaacaaac agtaccata gcaacaaaca gtaacaaaca gtagtcaaaa 60
atgcttgatc tggaaaatct gagcggtaaa attaatthcc ttacttgagc tacactattg 120
tgctctgccc agtataaaac gatggggacg tgctgccttt gagttcattt ctctacctga 180
ggaatccact acttcaccgt tgtttttaag tctctcgatc atgatttaat ttgattggac 240
acttggttaga ttaaggagat gcaggatctt ccaactgcac aggcattgtt catgatattc 300
tgctgtgtct gaaactgttg catcatgat ctccatttta tacgagttct tatgctcgag 360

```

<210> 1922

<211> 335

<212> DNA

<213> *Xenopus* sp.

<400> 1922

```

gaattcccat agcaacaaac agtacagtga gcatgtctga tcaggaagcg aaaccatcta 60
gcgaggatct aggagacaaa aaagatggag gggattatat caaactcaaa gtcattggac 120
aggacagcag tgaattcac ttcaaggtag agatgacaac gcatctcaaa aagctgaaag 180
agtcatactg tcagagacag ggcgttccaa tgaattctct caggthtttg tttgaaggcg 240
aaagaatctc agatcaccag actcctaagg agctcggaat ggaggaagag gatgttattg 300
aagtttatca ggaacagact gtgggtccac tcgag                                     335

```

&lt;210&gt; 1923

&lt;211&gt; 221

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1923

```

gaattcccat agcaacaaac agtacgatca ggagaaagaa gcgattattc ggcgagcggg 60
tcgagctttt cccgatttcc cttcccctgg gatctgtttt agagatatta ctectgtcct 120
taaagaccct ttggctttct gctctgccat tgatctcttc gagagacacc tgaggggcaa 180
ttttccaaag attgatgta ttgctgggct tgattctcga g 221

```

&lt;210&gt; 1924

&lt;211&gt; 358

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1924

```

gaattcccat agcaacaaac agtacaaaaa gttcttatgg gaagcaaaac aaaaaactgt 60
atactgtatt ataataaaaa aaaaaagagg ttattttggg acagtatagt gttaaaataa 120
gcaaaataag atttcagtat taaacttgag atttctagta ttttttattt gacaaatgac 180
tttaattctt tcattcctgg ttatatgggt gccctcccc cccttaccac agtggttatat 240
tatatattat tatttttctt ctactgctgt aaatttatgt tgtgggatgt taacagcaga 300
gagagggggtc ggcaagtggg gttcttatcc tactaaccca gtgcacagac ccctcgag 358

```

&lt;210&gt; 1925

&lt;211&gt; 175

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1925

```

gaattcccat agcaacaaac agtaagcggc tgcagcttta gtggaggagg agacgagaag 60
atatcgacct acgaagaact acctgagtta ttgcccacc ccagactatt ccgcatttga 120
gactgaaatc atgaggaacg agtttgaaag actttcggcg cgccagcccc tcgag 175

```

&lt;210&gt; 1926

&lt;211&gt; 472

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1926

```

gaattcccat agcaacaaac agtactcagg gaggacagaa gtgactcaga aaatgaagga 60
cgattctgga gttcgggtgt accagtccat cattatcttc ggcaatgtgg tcatggggct 120
ctgtggtttg gccctggcgg ccgagtgcac cttctttgtg tcagaccaga gtggcatcta 180
cccgtgctg gaggtactg acaacgatga catatttggc gccgcatgga ttggcatctt 240
tgccggattc tgtctcttcg tcttgtctat cgtcgggac attggcatca tgaagtcgaa 300
caggagaatg ctgatgggtt atctcatcct gatgttcatt gtgtatgcct tcgaagtggc 360
ctctgccatc actgctgcaa ctcaacaaaa ttttttcatt ccagagctct tcctgaaaca 420
gatgctagaa ctttaccaaa atcccaaccc aatcaacaat gacaacctcg ag 472

```

&lt;210&gt; 1927

&lt;211&gt; 530

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1927

```

gaattcccat agcaacaaac agtataacgg ggacctctgc ttcagttggg ttaaactcatg 60
aacaacgctc cgctactttt gtgccttggc ctatgggtag cctgcacatt aagcaaaccc 120
acagagaaga ggatcgtgtt catcatgact ctcagcttag tggtaaagt catgatgatg 180
cacaaaattt tgactatgac catgatgctt ttctgggtgc cgaggatgca aaaacatttg 240
atcagctaac acctgaagag agcaaggaga gactgggaat gattgtaggt aagatagact 300

```

tggataatga tgggtatgtg acggaggggg aactgactgc atggatcaag aaagcccaaa 360  
 agaagtatgt gtacgacaac gttgagcggc agtggcagga gtttgacctg agccaggatg 420  
 gactcgtatc gtgggatgag tacagaaatg tcacctatgg cacttacctg gatgatcagg 480  
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<210> 1928

<211> 479

<212> DNA

<213> *Xenopus* sp.

<400> 1928

gaattcccat agcaacaaac agtaggaaga tgcgcgtcgt tacagctctg aggctcgggg 60  
 cagcgtcta gtgcctcgtc ctgggtggcg aagtccagag tcaaggatgc aaatgtagaa 120  
 cgcactacat gggtaaatgc gataacagcg gtgcattctc agattgtcag tgtacctca 180  
 ccataggggc cgattcccaa cctgtgaact gtcacaaatt aattccctaaa tgttggtga 240  
 tgaagagaga gagccttggg acaaaggcag gtcgcagagt taaaccagca caagcactta 300  
 ttgacaacga tggactgtac aatccagagt gtgatactaa tggggtgttt agggcccggc 360  
 agtgacaaca tactgacacc tgctgggtgtg tcaataaccgc cgggggtcaga agaaccgaca 420  
 aaggggacaa aaactggaag tgcccggagc tggtcagaac taactgggtg attctcgag 479

<210> 1929

<211> 345

<212> DNA

<213> *Xenopus* sp.

<400> 1929

gaattcccat agcaacaaac agtaatcagc atgcagctcc tgtggatcac cgctgtgcta 60  
 cttctcatct ctgggtgcat agctcagaat acttcctggg cagatggggg tcttactcca 120  
 cttagtacat ctgtgataat tgcatttcca ggatgcaaag actccggaaa gactgttaac 180  
 ctgatcgtag caaatggcac aactactgta caaaatattt ccctccaggt accacagtgc 240  
 cgctttaaac gagatgttgt tgtgactaat aattcacagt ctggtaatgt gcagactgtg 300  
 aatgtgggct atcaaatata aaacctacaa ccaggtgacc tcgag 345

<210> 1930

<211> 324

<212> DNA

<213> *Xenopus* sp.

<400> 1930

gaattcccat agcaacaaac agtagaagaa cagtacgaag tgtgtgcttc tgggaacaga 60  
 gacatcatga gtctacagtg gacggctgtc gcaaccttcc tgtatgtgga agtgttttta 120  
 gtgtgtgtgc tgtgcattcc cttcatttcc cccacaagat ggcagaaaat cttcaaatct 180  
 cgcttggtcc aattgttagt gtcatatggg aacacgttct tctcgtctct gatagtatt 240  
 ctgggtgctgt tattactaga tgcacttcgg gaaatccagg aatatggagt cggggagcag 300  
 gtggatctta agaataacct cgag 324

<210> 1931

<211> 328

<212> DNA

<213> *Xenopus* sp.

<400> 1931

gaattcccat agcaacaaac agtacaagag cgtgtgtctt tggcttattg tcaccatggt 60  
 ggaagctgac cgcccaggca aactgtttat tgggtggtctg aacacggaga ctaatgagaa 120  
 ggctctggag gccgtgttct gcaaatatgg acgtgtgggt gaagtctctt taatgaaaga 180  
 cagagagaca aacaagtcaa gaggccttgc ctttgtttacg tttgaaagcc ctgcggatgc 240  
 caaagatgca gctagagaat tgaatggaaa ggcactggat ggcaaaccta ttaagggtga 300  
 gcaagcaaca aaaccatctg aactcgag 328

<210> 1932

&lt;211&gt; 403

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1932

```

gaattcccat agcaacaaac agtactggga aggggttagt aacatcagcc ggcatatcgc 60
tacgaatatg agacgtata gcttcgtccc ttacttttac ccggcgtagt ttttcatgct 120
actgataatg tgcgttttca ctccagtaaa aagtgaataa attaccttag agagtggcaa 180
tatagatgac attttaagaa atgctgatgt tgctttagtg aatttctatg ctgactgggtg 240
ccgattcagt caaatgctgc accctataat tgaagaagca tctaataataa tacaagaaga 300
atatcctgat aaaaataaag ttgtttttgc aagagtggac tgtgatcaac actctgaaat 360
agcacaaaga tacaggatca gtaaatatcc tacactactc gag 403

```

&lt;210&gt; 1933

&lt;211&gt; 280

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1933

```

gaattcccat agcaacaaca gtaacaacac aagccctaca ggaagagaga tgggtacagt 60
ttggccctgg atatgcctag ttttacaggc ttcttggact ttccccatgc actttaggaa 120
gcataatgaa ctcacattgc tgagaaacaa agtggaaagc catggagatc ccaataactt 180
catcaacaa agcagagcag atactccctt taaggaaaga gtgggcacct tcccggagat 240
gactggtggg agacgtagca acagacagaa cactctcgag 280

```

&lt;210&gt; 1934

&lt;211&gt; 338

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1934

```

gaattcccat agcaacaaac agtaaagaat aggaggcagc actgacactg gtaaacacat 60
caaagagcat gattactaca ctccctactg agagtttcgt gtgatatagag aaggatcccc 120
cgttctgctc aattgcctta tgtacgagac gtgctattat cgctttggtc aagtctacac 180
agaagccaaa cgccctccag gttatgacag agtgagaaat gcagaaatcg gaaataaaga 240
ttttgagctt gatgttctgg aggaagctta caccacagaa cactggctgg tcagaatata 300
taaagtaaaa gacctggata atcgcggttc atctcgag 338

```

&lt;210&gt; 1935

&lt;211&gt; 118

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1935

```

gaattcccat agcaacaaac agtagcttgg cggctctcgag gtggtgtgtg tgtttaggga 60
ttttttgttt ttgttttttg ccagaatgag gagatttttt tgttttgttt ttctcgag 118

```

&lt;210&gt; 1936

&lt;211&gt; 541

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1936

```

gaattcccat agcaacaaac agtacatgac tggagtcttc ctgctcctct gcgcctccat 60
gctggccgcc gccgcccct ttgacattgg attatccacc aagtgcgttc ccattcccaa 120
agagatggcc atgtgcaatg acgtcggtca ctccggagatg cgggttgcaa acctgttggg 180
acacactaac atggcagaag tcgtgccccaa gtcagcagag tggcagaacc tcctacagac 240
cggctgccac cctatgcca ggaccttccc atgctcccta ttgccccag tctgcctgga 300
cacgttcac cagccctgcc gcagcatgtg tgttgctgta agaaacagtt gtgctccagt 360
tctggcatgt catgggcact cctggcccaa gagcttagac tgtgacaggt tcccagctgg 420

```

ggaagacatg tgtctggaca ctctcagcaa agagtatcag tatgcctata aagaactgcc 480  
 aaagccaagc tgccagggtc gccacttat tgaagaattc ttttcacaca agacactcga 540  
 g 541

<210> 1937  
 <211> 411  
 <212> DNA  
 <213> *Xenopus* sp.

<400> 1937  
 gaattcccat agcaacaaac agtaattccc atagcaacaa acagtaggct ctgtaggttc 60  
 tccgctatca tggctacgtc agcactgggc aagatggcgg tgcccatgca gcaggagcag 120  
 ctccgtgtgg caaccgggct tcgttccctt ctctttctgt ggctgctgag tttagtggga 180  
 gcaaatgaag ggcaggcggc acaggacacc ccacaccggc ggttcgagta taaatacagc 240  
 ttcaaaggct cttacctagt gcagagcgat ggcactgttc ctttctggag ccactctggc 300  
 aatgcaattc ctgagctgta tcagattagg ataacgccat ctttaaaaag ccagaaagga 360  
 tcggtatgga cgaaaacttt ggcaaaacttt cagaactggg aagtcctcga g 411

<210> 1938  
 <211> 353  
 <212> DNA  
 <213> *Xenopus* sp.

<400> 1938  
 gaattcccat agcaacaaac agtatgcacg tgcaagaggg cttatccgga tccagaagat 60  
 gaggtccaag atgaaatgat ccagtgtata gtctgtgagg actggttcca tgggaaggcac 120  
 cttggcgagc tccaccgga gcatatggac tttcaggaga tgatatgcca gatctgcatg 180  
 gaccgatgtt catttctttg ggctatgct gcataatag caattcctcc tgttacaaaa 240  
 ataacatctg ctgagatgga tcctgaaagc aaggatatca aggttgatga tagtctggct 300  
 gagggatttc taggagaaga tgggccaac attaaaactg ggaaaacctc gag 353

<210> 1939  
 <211> 295  
 <212> DNA  
 <213> *Xenopus* sp.

<400> 1939  
 gaattcccat agcaacaaac agtaagggca cacacctatt atgcaccact ccattcttca 60  
 tcatcagcgg cctttcaatt ctctgaaga tgacctaca catggatttg acactctgag 120  
 tctggagagt tctgatagtt tagacactag tgtttctaca ggaaactcgg catgttctcc 180  
 tgataacatg tcaagtgtct gtggtttaga catgctgaag atagaagaga tggagagaat 240  
 gcttctagaa gctcatgcag agagatccag gctttagga tccagtgagc tcgag 295

<210> 1940  
 <211> 361  
 <212> DNA  
 <213> *Xenopus* sp.

<400> 1940  
 gaattcccat agcaacaaac agtactccga atactctgcc atctttttat ccaccatact 60  
 cacttgccca tccaagcttg cccaatgaca ttactatccc ctatttcccc aatcagatgt 120  
 ttccaaaccc cagcacagaa aaacccaaca gcactgggtc aaacaacagg tttgggacca 180  
 tattatcccc accacggcct gtgggatttt ctcaaaccac cttccctctc ctcccagaca 240  
 tgccgcaaat gcacatagc aacctctccc atctgtccaa cttcaactta acgtccctct 300  
 tccctgaaat tgccacgact cttcccactg atggctctgc catgtcacc cttactctcga 360  
 g 361

<210> 1941  
 <211> 287  
 <212> DNA

<213> *Xenopus* sp.

<400> 1941

```
gaattcccat agcaacaaac agtagtccac agtaggtcgg gtgctgtctg ggtgcaagca 60
cctttgggca gggcaagggg tgcagtgggt aaggcgacca gcgggcagga ctctgtgtgg 120
atacagcagt ttaattttca gtggcctggg aagagacca tcagaaaggc agttgcttca 180
gcagtgcaca tcttttctact catcttcagt acgtaatgga cttgatgaat tctttgatga 240
tcccaagaac tggggagaaa aatctgtaaa atctgggtcaa gctcgag 287
```

<210> 1942

<211> 349

<212> DNA

<213> *Xenopus* sp.

<400> 1942

```
gaattcccat agcaacaaac agtaaacaga catggcgaag catcatccag atctgatttt 60
ttgcagaaaa caggccggtg tggccactgg aagactctgt gaaaaatgtg atggcaagt 120
tgtaatttgt gactcctatg tgcgtccatg cacccttgtg cgtatatgtg atgaatgcaa 180
ctacggttct taccagggc gctgtgtgat ttgcggaggg ccaggggttt cagatgctta 240
ttactgcaaa gaatgcacca ttcaggagaa agatagagat ggttgccta aaattgtaaa 300
tttaggcagc tccaaaacag atctctttta cgaacggaag atgctcgag 349
```

<210> 1943

<211> 469

<212> DNA

<213> *Xenopus* sp.

<400> 1943

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gaattcccat agcaacaaac agtagaggga ttcctcattc ctcatcagt aattcgaatt 60
tgctgcggtt ctgctgcctt ccgaaagcat gttgcgcctc gtcctcgctg ccctggtagt 120
tgcagtaact tcagctgact tcaactgtatt gaagtcacca caaaatcaaa tattccaaga 180
gggaaattgg cctgttccgg ctgacaggat tccagatata atctcgttgt caatgggatt 240
ttccgtggaa gaggatctgc cctggcctgg cttaggagtg ggcaaccttt tccagcgctc 300
tcgtgctaca gtctcgtga cagttactgg agtgaataag ctcccgttg ctgccaatgg 360
actctcctat cctgtggaaa atgctgttcc atacagtgtt gacagtgttg taaattctgt 420
tcattctgtg ttttctgaag aaatgccagt aattttgcag cagctcgag 469
```

<210> 1944

<211> 489

<212> DNA

<213> *Xenopus* sp.

<400> 1944

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gaattcggac tactacaggt ggacaaaatg gcgaccagcg gctgcatgaa agtcaccaag 60
tacttcctgt tcctgttcaa cctcctgttc tttattcttg gtgccgtgat ccttggattt 120
ggaatatgga tcctcgtgga caaaaccagc tttatttcaa tcctgcagac ctctcttgg 180
tacctgagaa caggctccta cattctcctc gctgttgggg gtttaacaat ggtgatggga 240
ttcctgggct gcttggggagc agtgaatgag atccgctgcc tggtagggcct gtatttcacc 300
ttcgtgctca ttatcctgat cgctcaagtt gcagccggaa ttctgattta cctacagcga 360
gatgcactaa agtccgagat gtctccatc atccataaac tgattgtcac atatgactat 420
gaagatggaa agaacacgag ctccgagacc acctgggatt atatccagag aaatctccat 480
gtgctcgag 489
```

<210> 1945

<211> 281

<212> DNA

<213> *Xenopus* sp.

<400> 1945

```
gaattcggac tactacaggt gcaggttttag aagaggggtca tttacattta catattacag 60
```

ttcgttatct tatgaacaaa gtggattctg gttcctgaag actgaacttt cctatgagtg 120  
 caacatttgt acttatattc cttctgatcc tttccctggg caggatccct gcagcgtctc 180  
 tgttacactc ctccctcccta tccctctgtat ccttgatgga gaaaccagtt acaaggaggg 240  
 acgtttcattc tctgaattct cattcattcc tgaacctcga g 281

<210> 1946

<211> 437

<212> DNA

<213> Xenopus sp.

<400> 1946

gaattcggac tactacaggt gacaatttgt aggggtgagg gggcctcaat ttgtgtgcat 60  
 gattttcgat ttataaacca tttcatttgt taaaaccttc aaaatggcag aacgggcaat 120  
 ctttcctgtt tccgtttgca ttccgatgaa tgcaacaatt taactgggtg ccatgggttt 180  
 ctacccaggt gcaaatgtgc ccagtattga taaatgacct ccagtgtgtg tatgttgtta 240  
 cattttacaa atgtatgact ttttggcatt tgaatcgat agagagattt tgcaatcttt 300  
 aaggacaccc taatccccct cacctcctct ttttattaca ttatgtttgt ggaattagga 360  
 ttttaaaaga taaaccttat gaccacccat cccatcttca cccaaagcca ttaggcaaat 420  
 cacatccatc cctcgag 437

<210> 1947

<211> 270

<212> DNA

<213> Xenopus sp.

<400> 1947

gaattcggac tactacaggt gatgtagata agaaataggt gggacacatt ccaagatacc 60  
 atcttgagag ggtcttttac atttcaaaga ggaactgttt gtacagtgtg tgttggtaaa 120  
 agggacatct aaagaaatta gctggttttc ctgtttaact tgtcatcagc caatcagagc 180  
 cattctccat ttgggtcaat ggcctagaaa caatataaca atggagtgtg tttttggttg 240  
 agagagagat tgggaaggag gagactcgag 270

<210> 1948

<211> 333

<212> DNA

<213> Xenopus sp.

<400> 1948

gaattcggac tactacaggt gtttttagtgc cttgagggct gccctacaga gcattgattg 60  
 gggcattagg ttttcagcta aaaacacaga acagaaatgg ttgtccttta aaatgatatt 120  
 aaatcattac tgtttcfaat ttattccctt aaggactaaa cgtagaagct ctaagaatca 180  
 tcctgtgttg ctttaatacag aggtaaagat gttaatggga aagaagagaa aggcatttaa 240  
 aaactacaaa tctgtaggga cagaagctgc atttaatgaa tataaacact gtaataaatg 300  
 ttgtaaatca gcaatccgga aggccagctc gag 333

<210> 1949

<211> 284

<212> DNA

<213> Xenopus sp.

<400> 1949

gaattcggac tactacaggt gattgacttt agacatttaa tgtgagtata gtgagtaagt 60  
 gtaagtctta aagctcattt atagctgaga gaggagtgtg agtgcagggg gtgtatgact 120  
 gtgcgtagtg aggggacatc acattcatta cctgagtat ctggagaggg taactgactc 180  
 ggcagcatca caaggatgtg gttcatctac gtcctcagct ggctgtccct gtttgttcag 240  
 gtggcctttg tcaactctggc cattgctgcc ggaccattct cgag 284

<210> 1950

<211> 536

<212> DNA

<213> *Xenopus* sp.

<400> 1950

```

gaattcggga ctactacagg tgcgctcctt ccttcctgct gcctcctgtg tgggtgaggt 60
tcgctgtccg gggcctgcgc tacattgtgt aacctccgc cctgttgccg ccgcagcgaa 120
gtcctcccg ctcaggcaag tgaaagccgc gtcccagatt gtcccgaggt gattatgcat 180
aaggagcacc tggcccagga tgagaatagt aatccccgcg agggccccgg agccggaaga 240
aggacaaact gagtccagc gagcaggaca tgaaccacat taacaagagc aaagcgaaga 300
gcggtctcat ggaggctaat ggctttgggc cggaccacga gatcgagaca ttagccggcc 360
gtacagaaga cagtgtccct ctcagccctt ccaactccct caacctgcgt cacctgagag 420
gctgcgagag agacccatcc gggcgccac accaacgcta tccttcagc catcaccact 480
cctacagcta ctctcccat catcactacc gaccttgta ctccagctac ctcgag 536

```

<210> 1951

<211> 426

<212> DNA

<213> *Xenopus* sp.

<400> 1951

```

gaattggact actacaggtg agcctggaga ccgcgatcag acatgtgttt tctacacctg 60
ctctcactat tatgtgtgtg gctgtgtggt ccatctccag ccactgggga taatcgatac 120
aaacaagggg agccagtgat gatgtatgta aataaagtg gcccataat caatccacaa 180
gagacttate actactacca acttccagta tgtgtccag agaagatccg cctcaagagc 240
ttaacactcg gagaagtgtt ggatggagat cgcatggcag agtccttgta ccgaattgca 300
ttccgacaaa atgcggaaag agaaactctt tgtgagatga aattatcaat cagccaagta 360
gaggagctgc gcacagctat cgaagaattg tattattttg agtttatgct agacgaccta 420
ctcgag 426

```

<210> 1952

<211> 324

<212> DNA

<213> *Xenopus* sp.

<400> 1952

```

gaattcggac tactacaggt ggcaataaat aagcatcgtc ttcttcttct ttttcgtcat 60
tgcccttttt gtagcaggg caccgttagc gtcccttgct tactgtgtgt aattgtgcca 120
aggaacaaag taattttcgt gcaataccca ccggaggctc cgctcccaat atctcatcaa 180
gacagagatc gtcataaggt ttccgctcaa gtgctggaat ggtgttgctt cctggcagtg 240
ggtggccaac gatgacaact gtgggatatg tcgtatggca tttaatgggt gctgtccaga 300
atgtaaaatc ccaggaaact cgag 324

```

<210> 1953

<211> 360

<212> DNA

<213> *Xenopus* sp.

<400> 1953

```

gaattcggac tactacaggt gcagaaagtc aactctacta ccactggcat gtctgcaacc 60
actagttata catatggagt cagctctact accagcagtc cagtgaattt gcctgtttac 120
attactaaga aggaaccgga ccggcctggt gaatatagtg agatctgtct ccatcacatc 180
tggaagtact gcaggcttgg gaacaaatgc agtgagatgc attatcattt gccctaccgc 240
tggcaggaga aactggacaa caagtggcaa gacgctacca gcatggatgc aatggagagg 300
gcattctgcc aaccgaagaa cgacagttac ttggggatca gttttgcaac agacctcgag 360

```

<210> 1954

<211> 356

<212> DNA

<213> *Xenopus* sp.

<400> 1954

gaattcggac tactacaggt ggaggaccaa gaagtgtgga agtgttctag agctgcttta 60  
 tctagccaat cagaatgaac ggccagatgc tgaatggttt ccacgatgag ctcacgcagc 120  
 aaggcagctt tctctttacc tcagagtcag tcggggaggg gcacctgat aaaatctgtg 180  
 accagatcag tgatgcagtc cttgatgctc acttgaaaca agaccagaa gccaaagtcg 240  
 cgtgtgaaac tgtggccaag actggaatga ttcttcttgc tgggtgagatc acctccaggg 300  
 catctgtgga ttacaaaaa attgtacgag acacaatcaa atacattgac ctcgag 356

<210> 1955

<211> 384

<212> DNA

<213> *Xenopus* sp.

<400> 1955

gaattcggac tactacaggt ggaggagggt tccttcatca gaatggatat tgtactgctc 60  
 ctctttctct catccctcct ccctgggacg tgcacttacg cggccccccg taaggacccc 120  
 actctacgct ttgtggctct cggagactgg ggggggctgc cgcttcccc ctatactaca 180  
 agacagcagg agctggtggc tgaagagatg ggcaaacag tggccaaact gggcgagac 240  
 tttattctgt ctttgggtga caatttctac tacgacggcg tcaccgatgt gtcagacccc 300  
 agatttaaga tcactttcga gtcggtgtac agctccgagt ccctcatcaa acacccttgg 360  
 tatatactgg cggggactct cgag 384

<210> 1956

<211> 333

<212> DNA

<213> *Xenopus* sp.

<400> 1956

gaattcggac tactacaggt gcaaagctcc caaagttaaa aaagctggag ctcagtgcga 60  
 atcgcatctc tggaggatta gaggtactgg cagaaaggac cccaaatttg acacacctga 120  
 acctcagtg gaacaagata aaagagatca acaccctaga gcctcttaag aagctacctc 180  
 atctcatgag cctggacctc tttaactgtg aggtgactat gctaaacaac tatagggaga 240  
 gtgtgtttga gcttctcccc cagctcacct ttctagatgg ctttgatgca gatgaccagg 300  
 aggtccaga ttctgaccca gaggcacctc gag 333

<210> 1957

<211> 297

<212> DNA

<213> *Xenopus* sp.

<400> 1957

gaattcggac tactacaggt gcgaaaacct ataattccag agcgtaaata ccagttacta 60  
 tctaagattg aggatgggga aagtaacatt cctctgcctt ctttgcccc ctctcttcc 120  
 actgagaaag tacctgtggt gaaagctaaa gccacttcta tcatcatgaa ctctcttatg 180  
 acaaagcata cacaggagag cattcaacgc ttcgaactgc aggtggcct cagggatgct 240  
 gggatatgc cacacaaggg cctcactgct gaagagacca aataccatcc cctcgag 297

<210> 1958

<211> 256

<212> DNA

<213> *Xenopus* sp.

<400> 1958

gaattcggac tactacaggt gattcattgc aaaattgccc tcctctggat cctgggaaca 60  
 tgaaatataa ctaaagctat aataaatgca cattgtatca gtgctacaca atttgttggg 120  
 ccctctaaaa gtacatttta ataataataa ttgtacactt gagaacaagc aaatttacac 180  
 acacagtcca aactttttaa gtgttcagaa ttgttctctg tgggtgatct gattattata 240  
 atatagagag ctcgag 256

<210> 1959

<211> 329

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1959

```

gaattcggac tactacaggt gttttaacag aaaagaaaga aggcgacgaa ggaggtggta 60
ggattgaatg gttccatatt aaagatggta gttcttccag ttggccact atgatatgca 120
gctttgcaca agaaaatgag gaagcagaag atggagggga tgattctcag agtgatgaag 180
agcaagaact aaatgggtca aatgaggaca gtggacatct ggtccacaat tttgtaatgg 240
ataaacagga tactgaaatg aaagaaaagc atggaaatga aacacagggg atgctggaac 300
tgggcaagga agaaagacag accctcgag                                     329

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&lt;210&gt; 1960

&lt;211&gt; 396

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1960

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gaattcggac tactacaggt gcttgattcc aaaatgacca agaagcgaag gaataacgga 60
cgtgccaaaga agggccgcgg ccatgtccag cccatccggt gcacaaactg tgctcgctgc 120
gtcccaaagg acaaggccat caagaaattt gtcacagga acattgtgga agctgcagct 180
gtcagggata tctctgaagc cagtgtcttt gattcatatg cacttcccaa gctctatgtg 240
aaacttcatt actgcgtcag ctgtgcaatc cacagcaagg tggtcagaaa ccgctcccgc 300
gaagctcgta aggaccggac accacctccc aggttcaggc ctgctgggtgt acctcagaga 360
gcacctccca agccaatgta agagacgtgg ctcgag                                     396

```

&lt;210&gt; 1961

&lt;211&gt; 528

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1961

```

gaattcggac tactacaggt gcaggaaggc tggtaaattg atttctctaa gtgagcaaaa 60
tcttgttgac tgctccagag ctcaaggaaa ccagggatgc aatgggtggc ttatggatca 120
agccttccag tatgtcaagg ataattggagg catcgattct gaagactcgt acccatacac 180
tgctaaggat gaccaggaat gtcactatga tccaaactac aattcagcaa acgacactgg 240
ttttgttgac gttccatctg gaagcgaaga agatctcatg aaggcagtag cttcagtggtg 300
accagtttct gttgcagttg atgcaggaca tcaatccttc cagttttatc agtctggaat 360
ttattatgat cctgaatgca gcagtgaaga cctggatcat ggtgtacttg ttgtgggtta 420
cggctttgaa ggtgaagatg tggatgggaa gagatactgg atcgtcaaga acagctggag 480
tgagaaatgg ggcaacaatg gatacattaa gattgccaaag gactcgag                                     528

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&lt;210&gt; 1962

&lt;211&gt; 269

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1962

```

gaattcggac tactacaggt gataaatggg gttacagatg gtatttgcac tgcaaccacc 60
ccatttgtgc tcctgggaga tgtgcttgac tgtctgcctc tggcatattg tgacaagatc 120
ttcacgtttg tggaaaaaaa tgttggtacc tggaaatcta atacctttta ctcaggggaa 180
aaattacctc cttcggatgt gtaatgacct cttaagaaga ctatcaaaat ctcagaacac 240
ggttttctgc ggaaggattc tgtctcgag                                     269

```

&lt;210&gt; 1963

&lt;211&gt; 267

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1963

```

gaattcggac tactacaggt gtggaaattg ggtgacttga gcattgagct gaatagtgcc 60
ttctttactg ggatctatgg catgtggaat ctttatgtct ttgctctcat gttcctttat 120

```

gctccttcac acaagcacta tggagatggc cagtctaata atggtgctgg aatgagcagt 180  
 ggagaggaac ttcagctgac aaccacaatc acccatatcg atggacctac tgagttgtat 240  
 cggctggctg gcagggagggc actcgag 267

<210> 1964

<211> 309

<212> DNA

<213> *Xenopus* sp.

<400> 1964

gaattcggac tactacaggt ggaccggaga ggggcgacgg agatatgaat aaccaaggcg 60  
 gggacgagat cggaaagctc tttgtcgggt gccttgactg gagcacgaca caggaaaccc 120  
 tgcgcagtta cttttctcag tatggagaag ttgtagactg cgtaataatg aaagataaaa 180  
 caacaaatca gtcaagaggc tttggctttg tcaaatttaa tgatccaat tgtgtaggaa 240  
 ctgtcttagc cagcagaccg catacactgg atggccggaa tattgatcca aagccatgta 300  
 cccctcgag 309

<210> 1965

<211> 323

<212> DNA

<213> *Xenopus* sp.

<400> 1965

gaattcggac tactacaggt gctttggagg tcaaggaagg acatctgtgg tgccctgttt 60  
 attctgcatt taattaaagc tttctagctg aatgtgctta atgaactcgt tgccacttgt 120  
 acagacacct aagcagtgcc tctaattgctc tattttaaac ctaaaggcaa cttacacata 180  
 gttaatgctt taaagcagga gtccccaac gccaggccgc ggacactcct gccctgggtc 240  
 gccgagccca gtgctcaaaa acgaggcacg ccaaatttta tgccagcgcg tccaaatttg 300  
 ctgccaaacc ctccgacctc gag 323

<210> 1966

<211> 535

<212> DNA

<213> *Xenopus* sp.

<400> 1966

gaattcggac tactacaggt gaagcttggc agctatggct ttgttttagcc atttccatgt 60  
 tggatgctcc atgccagagg tgtgcttctt tgtctctgtg atgcttctgg ctatagtggg 120  
 tgagttcagc ctttccctgg ctgcgcaggt gactacctgt gaggcaaatg gcagtgtcta 180  
 ctatgttggt gactgtgact tcctggactc ggaccactgc actcaatgtg agtgcaccac 240  
 agagggccca gcctgtgcta ggacagagtg cacagccttg ccaccagcct gcattgcgcgt 300  
 cagccactac cctacggact gttgccctcg ctgtgagaag attggctgtg aatacagagg 360  
 agaagtttat gagctgggag aacaatttca gccctcagaa tgtgaacagt gtacatgtga 420  
 cgtagacgga attgcccgct gcctggtagc agactgtgcc cctcctccat gcgttaaccc 480  
 ggtgtatgag aaggagaggt gctgcccgcg atgtaaagat ggtccaaacc tcgag 535

<210> 1967

<211> 281

<212> DNA

<213> *Xenopus* sp.

<400> 1967

gaattcggac tactacaggt ggctaatagc ccaggaccac cttccctata ctaggaaaaa 60  
 gaaactcacc aaacgtacta atataacttg ttttaattgc tatcaaaaag gacatttagc 120  
 gcgccactgt ccagaaaatg aggacaagaa agaacaaaat tctcctagtt cttataaagt 180  
 tgttctgac cggcctcatg cacataaccc aaaccgggg aaattctacc gtagtacgga 240  
 gggcccccg ggaacctacc atttcatacc aaaccctega g 281

<210> 1968

<211> 308

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1968

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gaattcggac tactacaggt gaaggagtag gagggaaagt gaaaggaaat taacacgcag 60
tgattcctcg ttatcaaaga tgtcacggca ggattctagg caagatggca agaaaggctc 120
caccaaagaa agtaataaac gctctacatc tagtggaagg agcagttcag aatcgctgt 180
cctctacaag gataaaaagg ctaagaaatc aaaacgcagc agatcacatt ctgtggagaa 240
atcgcaaagg tctggttaaga aggcaagccg caaacacaag tctaagaccc gatcaagatc 300
gtctcgag                                     308

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&lt;210&gt; 1969

&lt;211&gt; 349

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1969

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gaattcggac tactacaggt gcatgaagtt actgtttgct gctgcgctta tcgcgggctc 60
cgtgatcttc ttgctcttcc ctgggagctc agtggcagat gacaagaaga aagggccgaa 120
ggtagaccgat aaggtatact ttgatttaaa gatcgggtgat gaggaagtag gaggtatagt 180
aatcggtctt ttggaaaaa ctgttcctaa gacagttgaa aactttgtaa ccttggcaac 240
cggagagaaa ggatatggtt acaaaggcag caagtccac cgtgtgatca aagaatttat 300
gatccaagga ggagatttcc ctctgtggaga tggtagtgaa ggactcgag 349

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&lt;210&gt; 1970

&lt;211&gt; 319

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1970

```

gaattcggac tactacaggt gaaatacatt tgtgccattt tgtttgcttt gtaaattgta 60
attttatatt gtatttcctt cctgggattg tgtgtcaggg ttgcttttct gatccagtgt 120
aatcaacatt caactgtaaa ttttcaatcc attgatgctc gcgctgcagg ctcctctttt 180
tacatgtccc tgcgggatgt ttttagagtg gcggcattca ctggcttgga tttcccatg 240
agaacacgta caatatctta ggtgtaacct tttaactctt tgttttgctt tctggggagg 300
gaatggggga actctcgag 319

```

&lt;210&gt; 1971

&lt;211&gt; 302

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1971

```

gaattcggac tactacaggt gtggggctct tccgtggagt tatggctgtc aaagtgttca 60
gttcatggga ttttaagtt actcagaatc gatctgtaca gagacagcga gaaaatatac 120
acatgcagct aaaggaaatg ctcagtgaag gactacaaag tgaccgtcca actctcttaa 180
agaagcaact gaagggtcct ttcattctca tgctctctg ggcatttgtt ttagggagct 240
ggcttggggc tgcagtagtt gtatatctgc tgtcagaaca tctacaccaa gttgggctcg 300
ag 302

```

&lt;210&gt; 1972

&lt;211&gt; 438

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1972

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gaattcggac tactacaggt gaacccctga aaaactcttt gaaagtctca tctctccggt 60
tacaagcgat gcatttttcc gtgactactg ggaacacaaa gtctgtcttc tccagggag 120
ggatcccgcg tttaccgatt acttccagac ccttttccga ctgtcagacc taaagcacat 180
cgccgggggt gggatttact acgaaaggga cgtcaatgta ttcaaagca gagacggcaa 240

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gaaaatagcg ttgccaaagac acgggaaagc cacttacctg catctcctca aagactttgg 300  
 cagcggggaag gccgctattc agttccatca gcccagagg tttaatgatg ccttgtggca 360  
 catcatggag aagttggagt gcttctttgg tgccttggtt ggaagtaacg tttacatcac 420  
 tccccgggac tcctcgag 438

<210> 1973

<211> 255

<212> DNA

<213> *Xenopus* sp.

<400> 1973

gaattcggac tactacaggt gataatctgt gtgtgcaaca gcgctgttat agtatctgtt 60  
 gctgtaccgg taattacgggt tatcattcga agagccacta gatcctcctg agctagacac 120  
 cgaactgggt gtacttgttg agtgactatg gtccattgca gggctttag aattactatt 180  
 acttgtattt gtcccttcat cagtgtgttt cttgaagaag ttgtgctgga gggcatagaa 240  
 aggggtggac tcgag 255

<210> 1974

<211> 410

<212> DNA

<213> *Xenopus* sp.

<400> 1974

gaattcggac tactacaggt ggggctttct tcaaggggtgc ctgggtccaat gttctccgaa 60  
 gaatgggtgg cgcctttgtt ctggtgttgt atgatgagct gaagaaagtc atgtaaactt 120  
 atcttctctg agatgtctgt gaccaggcat gctgtattct gtaacctacc ctggacattt 180  
 atggacattc taattttttt tttttgtca aacacactta tttataaaat atatagctgg 240  
 taaacttatt agctggtgtt ttgggatcag ttctattaca tctcaccagc tttccacaat 300  
 aataaatcat tccctttaag tctcttgctg cttttaagag cctgcaactg tgcttccttg 360  
 caaggttttg gccctttggc agtgacagac cgattcaatg gagactcgag 410

<210> 1975

<211> 320

<212> DNA

<213> *Xenopus* sp.

<400> 1975

gaattcggac tactacaggt gaatacatct gtgccatcag agcctagcag tcctcagagc 60  
 agtacacgta caagtcgttc agcttctcct gacgatatac ttgaacgagt tgctgcagat 120  
 gttaaagaat atgagagaga gaatatcgac acatttgaag cctctgtgaa agccaaatat 180  
 aatctcatga ctgaacagaa taatgggtcg atgcagaaga aattattagc accagacatg 240  
 ttcacagaat ctgatgacat gtttgcagca tactttgata gtgctcgttt taaggctgct 300  
 ggaattggaa aagactcgag 320

<210> 1976

<211> 455

<212> DNA

<213> *Xenopus* sp.

<400> 1976

gaattcggac tactacaggt gagatgagct aatggattht ggctatcctc aaaccacaga 60  
 cagcaaaatt ttacaagagt atactactca agaaggatcat aaattagaaa ctggagcacc 120  
 ccgtccacct gccacagtaa caaatgctgt atcgtggaga tcagaaggca ttaaatatag 180  
 gaagaatgaa gttttcctgg atgtcataga atctgtgaat cttttggtga gtgcaaatgg 240  
 aaacgtgtta cgcagtgaga tagtagggtc catcaaaatg cgagtgtttc tttcaggaat 300  
 gcccgaaact cgtcttggat taaatgataa agttctattt gacaatactg ggcgtggaaa 360  
 gagcaaatct gtggaactgg aagatgtcaa gtttcaccaa tgtgtacgcc tgtcaagatt 420  
 cgaaaatgac aggacaattt ccttcattcc tcgag 455

<210> 1977

<211> 299  
 <212> DNA  
 <213> *Xenopus* sp.

<400> 1977  
 gaattcggac tactacaggt gaaaagtaca taagcaagtc gcttattgga tttgcttttc 60  
 cagttatgtt aagtattact gatgtgtaca ttgttcttaa tgcattgtta aacatgcttc 120  
 ccttttgtaa aatatatggg ctttatttgg actctactgt tctacttttt aagatgtttg 180  
 tgtgtttttt tgtttttttt ctttgagtaa acataaagcc tgatttttgt attacttttt 240  
 agttgttgct cagttgtact ttatcaaata aatctgtaaa aacacagcgc tcaactcgag 299

<210> 1978  
 <211> 435  
 <212> DNA  
 <213> *Xenopus* sp.

<400> 1978  
 gaattcggac tactacaggt ggaagctcag aaatagtaca cggatcccg gagcggctct 60  
 gcagagaaca tggcggatgt actggattta cacgaggcgg gcggggagga cttcgctatg 120  
 gatgaagatg gggacgagag tatccacaaa ctgaaagaaa aggccaaagaa aaggaagggc 180  
 agagggtttg gtgcagatga aggcaccaga acgaggatcc gggaagacta tgacagtgtg 240  
 gagcaggatg gagacgagcc ggggccccag agatctgtgg aaggctggat cctgtttgtg 300  
 accgggttac acgaggaggc cacagaggag gatatacacg ataaatttgg tgaatttggg 360  
 gagatcaaga acatccacct gaatctggac cgcaggacgg gcttcctaaa gggctacgcg 420  
 ctagtggacc tcgag 435

<210> 1979  
 <211> 478  
 <212> DNA  
 <213> *Xenopus* sp.

<400> 1979  
 gaattcggac tactacaggt gcgcccagag gccgtttata aaatgcagct tttgtctga 60  
 gggcagagtc tgcacaccct agagggtgtct ggacaggaga ctgtttccca gatcaaggat 120  
 caaatctcct ctctggaggg aatctcttct gaggatcagg ttgttctcct tgctggctcc 180  
 ccactttctg aggaacatac cctgcaacaa tgcggcgtat gtgatctcag caccttggat 240  
 gtagtgtcac ggcgtgtggg aggtaaagtc cacggctctc tcgctcgtgc cggaaaagtg 300  
 cgaggccaaa ctccaaaggt ggccaagcaa gagaagaaga aaaagaagac tggccgggcc 360  
 aagagacgca tcagtatata cagacgcttc gtcaatgtcg taccacctc tggcaagaag 420  
 aagggaccta atgccaactc ttaaatgata agagtccaat aaacaactga aactcgag 478

<210> 1980  
 <211> 346  
 <212> DNA  
 <213> *Xenopus* sp.

<400> 1980  
 gaattcggac tactacaggt gaacagaggc gccatctgtt ctgcagataa ggacagtgtg 60  
 tatgagatgg aatcacactg aaatataatc ccagaaatag cagtgccag ttgcatcatc 120  
 actctctgta catgggggta tgaacttaca gagatctttg ccccatatac cagatttaac 180  
 ccaacacttt gcgccaatc ctacgcgagg gagaaaacca atctccttgc ttattactta 240  
 cttttgcctc cttatttaga tgagccgctg agaattgtaa ataacattta tacataatat 300  
 tgatatatac tatggcccat ggtgttacat tgaccaaac ctcgag 346

<210> 1981  
 <211> 310  
 <212> DNA  
 <213> *Xenopus* sp.

<400> 1981

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gaattcggac tactacaggt gtgataacgg cgcagctctc cactcaattt cagatactgc 60
taatggaatc tgtcttctcc aattgtatta tgagaagccc taatttgcta tggagcttgg 120
agctgtcatc agttggggat tgtgggggtca catgggagct gccagggttt tgccctgcag 180
tttgtatctt tcaactttcaa tagcacagcc ccctgcctgc cagttagctg ataggccgcc 240
atgggggttta tgcacttca tacaatagga cgggctgca caggctgact ttctaattgt 300
caagctcgag                                     310

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&lt;210&gt; 1982

&lt;211&gt; 341

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1982

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gaattcggac tactacaggt gcaaagagaa cgcgagcggc agaggcagag agagcgagag 60
atcagagaaa tggagagaca aagggaacga gaccgcagag cccgtgaacg tgttcttatg 120
atcagagaaa gagaagaacg ggagagactg cgaagggagc gcgccaggct tgagtttgaa 180
agagaccgtc ttgatcgaga acgtatggag cgcgagagac tagaaagaga gcgaatgcgt 240
atagaagaag agcggcgaaat agagcaggag cgcattcaca gggaaaggga ggagcttcgt 300
cgtcagcaag accgattacg ctatgaacag gatgcctcga g                                     341

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&lt;210&gt; 1983

&lt;211&gt; 301

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1983

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gaattcggac tactacaggt gcgcgctccc gcggagttag gcaatagggg ttgctggaga 60
gagcgattga gagttagatt tgctgcgggc gctttaggga ttcatattgtg tcccagtggt 120
aactaacatg agactccccg ggaataagtg gctgggggca gcgctccttc tcgtgctaâc 180
ggtctcgtgt agagtgcgga gcgacgaacc cactggaccc ccatacaact caacagaaaa 240
aacaataaca agtgctcccc tgcaaccgac cgcaggcagc aatataacag acatcctcga 300
g                                     301

```

&lt;210&gt; 1984

&lt;211&gt; 304

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1984

```

gaattcggac tactacaggt gattgtatgt ccagcttcca actcgtgcct cagaggaaat 60
acactgacaa ctcaaaact tgttgaatt caagatggaa ttctggaaca agtattcctg 120
gacaaacctg ttggtgcggg ctctgatttt cgtgactgtt gatcggaattc agtctgacga 180
ctcaatgtgt ccacaggaca tgggtatacgg ctgcaagcgg atttgctaca gtaactgtga 240
caatctaaac agcaccagtg aaggctgcat tgagatatgt aagctgggat gcgaccgact 300
cgag                                     304

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&lt;210&gt; 1985

&lt;211&gt; 474

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1985

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gaattcggac tactacaggt ggtggataac tgtgtgttca aacgtggtga caaggagacc 60
acatgtacag atctggaggg attctgggat atgatctatt ttcagataga agatgtaaaa 120
gcaaagtttg ttaatcttgg caagctggag gagaattctt ggcaacaaaa cacagcccca 180
acaaaaaaaa tcataaagaa aaagattgcc cctgctgcaa catcaaaagtc aagccaaggg 240
gataatggca gggctgctgc tcgtagtcgc ctgcgtgcta ttaaagctgc cttgaaaaac 300
aaaggaaaagc aggaggagcc caatgtagag gccccagcac tgcctaccca agttgaagaa 360
gttgtgttcg atgcagggtt ttttcgagtc gcaagccctg ccaaagttgc taacagtttt 420
aggggcaaat gcagttcttc ttggtcatcc cctactcccc agccccact cgag                                     474

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<210> 1986  
 <211> 347  
 <212> DNA  
 <213> *Xenopus* sp.

<400> 1986  
 gaattcggac tactacaggt gaaagacacc attagaaaag ccctggaaaa ctccaacgtt 60  
 gtcattaacc taatcggaaa agagtgggaa acaaagaatt ttagttatga agatgttttt 120  
 gtgaatatcc cgagagatct tgcaactgcta gcacgggagg ctggagtaga gaaattcatc 180  
 cacatgtccc atcttaacgc tgacctgaaa agcccatcaa agtatctgag gaataaggct 240  
 gttggagagg ccgctgtaag ggaggcttcc ccagacgcaa tcatcatgaa gccttcagaa 300  
 atgtacggca gggaagacag attcttcaac cattatgcaa actcgag 347

<210> 1987  
 <211> 275  
 <212> DNA  
 <213> *Xenopus* sp.

<400> 1987  
 gaattcggac tactacaggt gaaaaaaaaa ctgcagcact cttacaagtt tctgtgctgc 60  
 atattgccaa taatgggtgc aacaacctcc tggatattaa tcctacaata tattttgttt 120  
 tgaacttcat ggggtgtcaga aacctgctta tgcattccaa cctactgcag gtagggaaga 180  
 gtgcaaatgt cgtttgtttt acctagattt ctgaaatgtg ataattctcg aatgtttttt 240  
 atttcacttt tattttatga ctgtgtaagc tcgag 275

<210> 1988  
 <211> 489  
 <212> DNA  
 <213> *Xenopus* sp.

<220>  
 <221> unsure  
 <222> (17)

<220>  
 <221> unsure  
 <222> (22)

<220>  
 <221> unsure  
 <222> (25)

<220>  
 <221> unsure  
 <222> (61)..(62)

<400> 1988  
 gaattcggac tacgacnggt gnaanaactc atacaggtga gaagccattc aagtgtgagt 60  
 nngaaggctg cgatagaagg ttgtgcaaca gcagcgacag gaaaaaacat atgcatgtgc 120  
 acacgtcaga taagccatat atctgcaaag tgtgtgataa atcctacact caccacagct 180  
 ccctaagaaa gcacatgaag gttcatgaat cacaagggtc tgattcttcc cctgccgcca 240  
 gctcagggta cgaatctgct accccaccag caatggtttc tgccaacagt gtggaacctt 300  
 ccaaaaaattc atcagcaaca catcagacta acaacaattc tcataacaca ggactacttc 360  
 cacctaattt taacgaatgg tatgtctgag caaaatgtag agaggcctag tcatgtctaa 420  
 caaaaggacc atgtgcaaaa aaacagaatc caattttttt tatgttgaac caaggcggaa 480  
 atgctcgag 489

<210> 1989  
 <211> 507  
 <212> DNA

<213> *Xenopus* sp.

<400> 1989

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gaattcggac tactacaggt ggggttacatg gcttctctcc gactgtctgt gctgctcgtg 60
tccgtctcat ggctgctgct gctgggtgtct ggggtccgcg ccgggcctcg cactcttgtc 120
ttaatggaga acatcgacct gcgggagacg cactctctct tcttccgcag tctatcggac 180
agaggatttg acttgtcctt caaacacagct gatgatccga gcttgtccct tatcaagtac 240
ggggagttct tgtacgacaa tctaaccatc ttttccccct tcgttgaaga ttcggggggg 300
aacataaaca ttgagaccat cagctcattc atcgatgggt gcggaagtgt gctgggtggca 360
gcaagctctg atattgggga ccctctccgg gagctgggca gcgaatgtgg cattgagttt 420
gatgaagaga aaacagctgt aattgatcat cataactacg atatctccga cccggggccag 480
cacacactta ttaggggccga cctcgag 507
```

<210> 1990

<211> 294

<212> DNA

<213> *Xenopus* sp.

<400> 1990

```
gaattcggac tactacaggt gttccagttc agtgaaccct cagttaaata tacttgatgt 60
tagttaatga taatggaaaag gttatgtcat tataaaaaaa tgaatcaagt ctagagatgg 120
ttttcagctt gtgaacaaaac aaaagggcat caaccaaagg ggaacaaaatt aaatactctg 180
gcactattag cagtgtgttt gttccttaac agccatttcc tttgcattgg ttctggatct 240
cgtagatctt tctttttttt tttaaatgta ttgtatgca ctgtgtaact cgag 294
```

<210> 1991

<211> 279

<212> DNA

<213> *Xenopus* sp.

<400> 1991

```
gaattcggac tactacaggt gaaagacatg aacaatgttg ggtagtaaag cagtagaaag 60
tcagcaaagc tactaaatgg cttgtgaaat gttctgggtt agaatgggtc taaacttccc 120
actgaatcca taactattgc catcttaagc agttattctg tgggtgtgctt aaaccttatt 180
gttaaacttt ttgtttttta attgaatacc ttgcaagtag aatttgtggc atgagtaata 240
agtctttgct gaaccacaac ttcttgacca gtgctcgag 279
```

<210> 1992

<211> 302

<212> DNA

<213> *Xenopus* sp.

<400> 1992

```
gaattcggac tactacaggt ggagaaacat agccactgtg acctgttcat atgtacatca 60
ttgtacaatt tttttagtgg atgcaattta ttttgtgtga ttgtacatta ctgaactgga 120
atgtaactgt tctcagaagg gttcattttt gagaattgaa tgtctggctg gaaatttctg 180
atcccatacc aaaactgggt ttgtaagcca tatattacat gtgaaacata cattgagtta 240
attgcaatag gcttaaaaaa gaagtagcat attccagcca tcataaccagc agcccgctcg 300
ag 302
```

<210> 1993

<211> 554

<212> DNA

<213> *Xenopus* sp.

<400> 1993

```
gaattcggac tactacaggt gggccacagc aatatttctg ccgttctatc agaagttcct 60
gttggcatgt ggtacctgaa gagagccgtg cgtcgtatcc atcggcagct tcttgtgtga 120
atttccttct tacaacggga cgcagtctga gaaacggata aagctccatt gcgcacgtac 180
ttattcagtg tgcctgccat gtatatacct tggagtgtat ttattgttgc atatcgttcg 240
```

```

taagtcttgc acatattttc atgtttttct catgaaatat ttttaagaaag gtgtggccag 300
cataatctct tgttttacat ttgtattgct ccttgcttat aaatgtacat gtcatgcaac 360
gtaatgttct ttattttacag gctgctgtat acgcaacttc aaattgatct cttttgagca 420
acggcagtggt aaataaagca cagtattagc ggaaaaccaa tagttagttg cttttgtaca 480
gagcttcccc tgcagtcatt ttaaatacacc atataatgct gatgtacagc ctagctagag 540
cccagtacct cgag 554

```

<210> 1994

<211> 279

<212> DNA

<213> *Xenopus* sp.

<400> 1994

```

gaattcggac tactacaggt ggtaaagatc cagggcattc gagttaaaga cgagagccca 60
ggaatcaggg attttgaagc aagtttcatc agactaatgg ataaaaataac aaacggcaca 120
aggatcgaga tcaacgaaac tggtagctct ctgtactatc agcccgggct tctctctgga 180
ggaaccttgg agcatgactg caatatactg cgctctatcg gctattattt agaaagtctc 240
ttttgcctag ctctttttat gaagcacccg catctcgag 279

```

<210> 1995

<211> 298

<212> DNA

<213> *Xenopus* sp.

<400> 1995

```

gaattcggac tactacaggt gcaaaatgga aacatgtttt agcagttgag attaagtttt 60
gtacagatcc ctttaagagcc tcttacacat gcagagtgc atagctagt gtgagcctga 120
aacattcttg ctataggctt ctgtactgt ccgttcaagc taacttgatt tataaacctc 180
tgcttggtcc ttgacctgag gaatatcttc attttcagtt gaagtgaact tgtatcaaatt 240
ctaagaattg gcattttggc taccaggtc tcctggctat aaataaaggc ccctcgag 298

```

<210> 1996

<211> 325

<212> DNA

<213> *Xenopus* sp.

<400> 1996

```

gaattcggac tactacaggt gcagaaccgc aaaagaaatt gatcaagaag cccaggtcag 60
ccttagtgat ctaaggagcc cacaacatga ccttgacagg gtgaagaagc cagagtgggt 120
cattttgatt ggtgtgtgca ctacacctgg ttgtgtgccc attgccaatg ctggtgaatt 180
tggtgggttat tattgccctt gtcagtgggtc ccattatgat gcattctggta gaattcgcaa 240
gggtcctgct ccattgaatc ttgaagttcc agaatacgag ttcccttctg aagatttagt 300
aattgtcgga taggtacgac tcgag 325

```

<210> 1997

<211> 439

<212> DNA

<213> *Xenopus* sp.

<400> 1997

```

gaattcggac tactacaggt ggtttagtgg tatcatcagt tgtgatttgt gtttagtcag 60
gttatctatt acaagtacca cttagcgatg ctgaaattcc gggagaacta attgctccga 120
taatacgttc catctaattc atcctcggct atgtgcgcta aaacaaattt taattttgaa 180
gtggacctgt cgcccagaca cgaaagctg tgtgatggag gtcccttttca ggttgaacat 240
gtccaaaaat ccggtattcta tcttttgta aagcatctat ggctgtaggc tcgtttgggg 300
atctcagctg tcaatcagat gtggtctgcc cctcctcggg gccttagggc ggcattggag 360
cgggacagac ggttcctatc gctttccatt cggcgcttcc tgggtgtcgc tgcctctcgc 420
acgttccccct attctcgag 439

```

<210> 1998

&lt;211&gt; 409

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1998

```

gaattcggac tactacaggt gggctaccct atcacccttt atctggaaaa ggagcgggaa 60
aaggagatca gtgatgatga ggcagaggag gagaaaagaag aaaagaagga agaggaagga 120
gagaacgaca aacctaaaat agaggatgtg ggctctgatg aggaagagga agggaaagat 180
aagaagaaaa agaccaagaa gatcaaggaa aagtacattg atcaggagga gctgaacaaa 240
accaagcccc tctggaccgg caaccctgat gatattacac aggaagagta tggagaggtc 300
tacaagagtc tgaccaatga ctgggaggat cacctggctg taaagcattt ctctgtggaa 360
gggcagctgg agttccgtgc tctgctatct atcccccgcc ccgctcgag 409

```

&lt;210&gt; 1999

&lt;211&gt; 364

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 1999

```

gaattcggac tactacaggt gcaaattact tacaatgtag gtggtttgta gttcagttga 60
agttaaattg gtattgtcga actacaaact actttcacac tatatagaag ttgcttagaa 120
ttaagctattc tataactcac ttaaaattac cttaaagggt aatcaccact ttaagccacg 180
tgtctcataa gaagaaatga tcctacaaat aactttaaag gctgaatttg gtaaatattt 240
ggatgcagag gtaaaggagg ggattattac tggagaaacc agtgattagt ttgagtgcaa 300
agaacaaata ttctgtatat atactttccc ccaaacaaca tgtcccacc tgtagtagtc 360
cgaa 364

```

&lt;210&gt; 2000

&lt;211&gt; 308

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2000

```

gaattcggac tactacaggt ggagccatgg gtccttggag gtatctgttt gggctgtgct 60
ggttcctgca ggttcatttt gcccgatcgg ctgttccttt gcttgcaaac tccgatttct 120
ttaagcctcaa tccactcag actacgatta cggttgaacg gccgttctgc atgtttaaag 180
atgccattga cgtttatctc ttgtccattg tgaaagggtg cacaagcatc caagttgctg 240
atgccgccaa gaaggttatt gcctctaact acactggaac ccagggaggc ctactgggac 300
ttctcgag 308

```

&lt;210&gt; 2001

&lt;211&gt; 304

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2001

```

gaattcggac tactacaggt ggttggttat cctgagagtg tgaggtagcg gaataagaga 60
gaggaaggtc atgcccacca tggggaagaa acagaatggc aagagcaaga aggtggagga 120
agccgagcct gaagaatttg ttgtagaaaa agttatggac aggcgtgtag taaatggaaa 180
ggttgaaat atacctcaaaat ggaagggttt tacagattca gacaacacct gggagcctga 240
ggaaaactta gactgtccag agttgattga agcattcctt aattctcagg aggcagggct 300
cgag 304

```

&lt;210&gt; 2002

&lt;211&gt; 372

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2002

```

gaattcggga ctactacagg tggtaaatat ggagactctc ggtggagcgg agggagggga 60

```

```

gaccccaaca gaagagccgg acaatgtaga actaagaaga cgccgacttc agaaactgga 120
aacaacagat tctcaataaa agacttaacc ctctcgaca ttccaaagt ctctctctcg 180
acactgaacg accagggaac ttctgctttc tgaaaagcta cgttttgctt tgcgcggact 240
cagcagccat ctttggaaca ctttgatatg aacttcgtta aatatatata ttttttacga 300
ctacacaagg gttcttatgg cagatgctca gtgatgaaag gactactggc ctcaatatcg 360
gggggactcg ag 372

```

&lt;210&gt; 2003

&lt;211&gt; 287

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2003

```

gaattcggac tactacaggt ggtggattta cctgaggaaa acagagaggc tgcatacaat 60
gccattactc tgcttgagga attccatgac ttgatcagc cgctacctga tctggatgac 120
attgatgtgg ctccagcagt tagcttgaaac caaagtcgag ttgaggagat tacaatgagg 180
gaagaagtta gcaacattaa tatcctgcaa gataatgatt ttgttgactt tggcatggac 240
gaccaagaga tgatgcgaga aggcagcgct tatgaagatg actcgag 287

```

&lt;210&gt; 2004

&lt;211&gt; 414

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2004

```

gaattcggac tactacaggt ggccatgcag catctttgta gcttcactct tttcttgcac 60
cttcttcgag gttctgccag ccaaacattt gaggcagact gcaatgacca caatatattt 120
tacgcagtag ataaggcact gagacaccac aacaaggcgt taatagatgg aaaccagttt 180
gttctctata ggatcacaga tgccaagata aagactgata atagcgatgg gatacataac 240
tttgtcagct atgatatacg agaaggttcc tgtggagtaa aaagtggcaa attgtggcag 300
aattgtgatt ttaagcaatc tgatgaaaaa gtgggtaagt gttcggcaca cgtttagtagc 360
aacaagagtg tcaagaccag tgaagtcac tctcagaact gtagcacact cgag 414

```

&lt;210&gt; 2005

&lt;211&gt; 280

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2005

```

gaattcggac tactacaggt gatcatcaga gatcaaaaga cagggatcgg caaaggattc 60
ggctacggtt tatttgagag tgcagacgcc gtccaactag cgctgaagct gaacaactct 120
cagctctcgg gaagaaggat ccgggttaag cgcagcgtaa cggcagaggc cgcccaaaaa 180
agtacaaaca aaacaagttt taagcagaag ttggacacat taaatcaaac aaaaccgatt 240
aaggccaaca gttttgtcgg cgaaacagcg gagcctcgag 280

```

&lt;210&gt; 2006

&lt;211&gt; 319

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2006

```

gaattcggac tactacaggt gcatgaggat tctgagctta ttgcatTTTT ctgggaacct 60
accaaaccac ccatttgccg gtgttctgag tacgctaggt cttagcttct ggtgtccacc 120
cctactttca ccaaacatat catctacaag aagctgcttc tgtgccatgg cagaaatgca 180
agatagtcac aatgaaatgg ggctgtacac cccaaatcct gaagtacgtg ggaatgactt 240
tctaaatcgg gatgctttca ataaaacat acacgttccg gtaattaaag taaagaaaaga 300
aataatcaat agactcgag 319

```

&lt;210&gt; 2007

&lt;211&gt; 315

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2007

```

gaattcggac tactacaggt gcaagcttta cagtaagaca tcccatggta ccatatacct 60
ttataaggct tgacattgca tgaaatattt agcttgaaac aaatgtgaaa aataaactaa 120
cagtaaaata attagcttac atgaatacaa agttaaaaca aaatatgtat tagttcaaag 180
attcagcaag gcatcataaa tgaataaaac aactttgttc tacagtgtct agagattgct 240
gcttagccaa tatctagatg atatgtacct gtgcaaatcc ttaacagtgc agaaaaacac 300
ctgtagtagt ccgaa                                     315

```

&lt;210&gt; 2008

&lt;211&gt; 332

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2008

```

gaattcggac tactacaggt gtacaaacct tccaggttat tctgcaacag ttttactaat 60
ttttctgagg tggccatagt acatttgtga ttcgctatgg ggtttgatgt actgttgggt 120
gggtgcattc acaacccggg gtggcacact gcacatatga taaatacttg tcttatatta 180
ataggcctgg ccttgccac taatatggaa aaacccatt ataagatggc tgtgtggcta 240
ctggctgtga taagcagcat agcaactctt taccatataa caaaaaaagt tagcttgctg 300
gtgatctcta ctgccaacg tgtgctctcg ag                                     332

```

&lt;210&gt; 2009

&lt;211&gt; 274

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2009

```

gaattcggac tactacaggt gagccaatga actgggaatg cttctttaca gtttccttga 60
caggtttctc ttccaggtag tcagtctgat ctcccttcag atgcaggatg actttggtac 120
cacggccaat gggctcacca gtatcaacct tcacagtga ggagccacca gcagaggatt 180
ccaagcata ttgctcatca tcattgtgtt tggaatgac cacaaccttc tctgccacca 240
ggtatgcaga atagaaaccc acaccgacct cgag                                     274

```

&lt;210&gt; 2010

&lt;211&gt; 326

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2010

```

gaattcggac tactacaggt gcattgatta gatcactgca gcataactgt ataaatatct 60
atagactaag gtgcatttct agatgctgga aaaactgcag cacaggatgg gccaaatgtg 120
tactggaagt tttggttgca gaagttaaa ggtaaggaga agttggcagt gatggacccg 180
attatgggat ggtctttgta agcctctgtc gtaaagggggt tatttgcctt tgggttgact 240
tttagtatga tgtagagcag tgatccccag ccagtggctc atgaacaact tgttactccc 300
agtggcctca aagcagatga ctcgag                                     326

```

&lt;210&gt; 2011

&lt;211&gt; 265

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2011

```

gaattcggac tactacaggt gcaacatcaa gccagcttgg attgataata gtcacaattg 60
gactaaatct tccccaaact gccttcttcc acatttgac tcatgcattc tttaaagcta 120
tattatttct ttgttcaggt tctattatcc atagccttaa tgatgaacaa gatattcgaa 180
aaataggagg cctacaaaat tctttaccaa tcaactacat ttgcttaaca attggcagcc 240
tagccttaac cgggacaagc tcgag                                     265

```

&lt;210&gt; 2012

&lt;211&gt; 335

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2012

```

gaattcggac tactacaggt gagaagatag aaaagaggcg gcagatcccg ttccacatgc 60
acatcaacct ggagctgctg gagtgcgtct atctggtgtc ggccatgttg ctggagattc 120
catacatggc tgcacatgag ttcgatgcca ggagaaggat gattagcaaa cagttccacc 180
accagctccg tgtgggagag aggcaaccac ttctagggcc cccggagagc atgagggaac 240
atgtagtgcg tgccttccaaa gcaatgaaga tgggagactg gaagacctgc aagaacttca 300
tcatcaacga gaagatgaac gggaaaggct tcgag 335

```

&lt;210&gt; 2013

&lt;211&gt; 281

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2013

```

gaattcggac tactacaggt gcaaataaat gcatggtgtc taggggaatt tggaccctag 60
ttaccagatc acttaagatg caaattgaag agctgctgaa taaaaagcta aataactcaa 120
aaaccacaaa taataaaaaa tgaaaaccaa ttgcaaattg tctcagaata tcaccctcta 180
cattgtacta aagggtgaaca accactttaa taaatagcag tgtgctcgcc attaatgagg 240
tcaataaatg gctgtttgccc cccattcaag caaacctcga g 281

```

&lt;210&gt; 2014

&lt;211&gt; 365

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2014

```

gaattcggac tactacaggt ggcttctttc attctctgtc ggactttgag ctggtccaga 60
cgctttttat ccacctccct ctttgccagc aggaagagca ggatgccaga tggaaagccg 120
atggcccatg ccagacctac tttcttcaga ggggttttgg ctttgcgctg ggggatgtac 180
tctggtgtcc tagaggcctg ttcttgtagc tcagggtttg cccacagacg tgagtgggtg 240
tgagctgctt ttgcattgtg tggatggag gactggaaag cagagaactg tgacttcaca 300
gagtcaacca aggcagccca catgcgcctt cttctcactg acgccaacat ccttcgcgac 360
tcgag 365

```

&lt;210&gt; 2015

&lt;211&gt; 384

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2015

```

gaattcggac tactacaggt gaagtgggtt ggattactaa gtgaggagcc agtgcctgtt 60
gcagactcaa ttgttgatgc tctggccaaa caccttgaaa ttatgctctc atttgggcca 120
ggagaaagag acatgattgt tttgagaaat gatattggca tcagacatcc ttctggccat 180
ttagaatcca aaaacatcag tttggtcgta tacggagatg taaatggcta ctcggcaatg 240
gctaaaaactg tgggctaccc aacagcaatt gctgctaaaa tgggttttga tggggaagt 300
gaaagcaggg gcctggtaat tccactgacc aagaatatct atggaccaat attagaacgt 360
gtcagggaag aagggaattct cgag 384

```

&lt;210&gt; 2016

&lt;211&gt; 339

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;220&gt;

&lt;221&gt; unsure

<222> (114)

<220>

<221> unsure

<222> (117) .. (118)

<400> 2016

```
gaattcggac tactacaggt gcagatacaa aggcccaaag ccagatccct gcttgaacag 60
tgaacaata ccgttaaaga gggattttct ttgcttaaac tgaattactc tgcncnnca 120
agaaaagatt ccaacaccag gacaaatata caacatgttt tctcccccc cccccccat 180
tttttctttt tcctcccaat ctcttacgta ctttcaataa tataaataga tgtttggtt 240
ttacatcact ctagaagcct ttcttgctac aggggtgcag gatgaacctt tttaaaggag 300
tattttctcc atctttcttg acatgacaat gccctcgag 339
```

<210> 2017

<211> 430

<212> DNA

<213> *Xenopus* sp.

<400> 2017

```
gaattcggac tactacaggt ggggggcccc aaatacagcc atctgaacat ggaccttcat 60
gtgttcatag aggtctttgg accaccatgt gaatcttata cacgtatggc acatgcaatg 120
gaagaagtta aaaagtctct ggttccgctg acacctgagt cttttccata ccaggacatg 180
atggatgata tctgccagga tcagtttatg gatctttctt atcttaatgg agcaccacca 240
gagcaaaccc gaggaggatc aagaggtgga ccaaccaggg gccgaggggg ccctccacct 300
cctgtagctc cttcttctag aggaagggtt gggcctcttc gccctcttgt tccaagaggt 360
gccctgggtc gtggagccat aacacgtggt gccagtgcga gccgtcctgt acctccatct 420
gcttctcgag 430
```

<210> 2018

<211> 367

<212> DNA

<213> *Xenopus* sp.

<400> 2018

```
gaattcggac tactacaggt gaaaatttct agagttgcac ttgaaaacga atgaggctcg 60
aaagctaaat catcaagaag tggtagaaga agacaaacga cagaagttgc ctagttaactg 120
ggaggcacgg aaagcccggt tagaatggga gctcaaaaac gaagagaaga aaagggaatg 180
tgcagctaat ggtgttgact ttgagcggga aaagcttttg gaaataagtg cagaagatgc 240
tgaaaggtgg gagaggaaaa agaaaagaaa aaatcctgac ttgggatttt cagactatgc 300
agcagcacag ctacgccaat atcagaggct gacaaagcaa attaaaccag acacggaagg 360
actcgag 367
```

<210> 2019

<211> 345

<212> DNA

<213> *Xenopus* sp.

<400> 2019

```
gaattcggac tactacaggt ggagatgacg gggaatggag cgaacgaccc gaggagaccg 60
gggaaaaatac accggtataa agccccaacc acagagagct ctccaactca agacgatcct 120
acgcctgatt atatgaacct gctggggatg atattcagta tgtgtggtct catgcttaag 180
ctgaagtggc gtgcatggat tgcagtttat tgctccttta tcagctttgc caattctcgc 240
agctctgaag acaccaagca aatgatgagc agctttatgt tatccatctc tgctgtggtg 300
atgtcttatc tacagaaccc acagcccatg tcacctaccc tcgag 345
```

<210> 2020

<211> 298

<212> DNA

<213> *Xenopus* sp.

&lt;400&gt; 2020

gaattcggac tactacaggt gaccttgttg aaagtacaac gccatgggttc ttgaactgtt 60  
 aggcccaagt ttagaagatt tgtttgacct gtgcgaccgg acgttcacat tgaagactgt 120  
 gctgatgatt gcaatccaac tgatctcaag gatggaatat gtacactcca agaacctcat 180  
 atacagagat gttaagccag agaactttct tataggggcg cagggaata agaaggagca 240  
 tataatccac atcatagact ttggactagc caaggagtat attgacccgg atctcgag 298

&lt;210&gt; 2021

&lt;211&gt; 289

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2021

gaattcggac tactacaggt gggggagcgg agacagtgcg cggggcacac ggagcggagc 60  
 aacagatata ggaatacgcg acttggttgc acgttctatt gctgagacgc aagggaagaa 120  
 caaggggccc cagggaacg agcgacggat aagaggatcg gggtaaattg tgattggagc 180  
 ccgcaggatg caccgccttt ggtcttttct cttggtgctg tgcccagttt tgcaggcaca 240  
 acagattact gtcaacgaga agatgactgg taccttgagc cagctcgag 298

&lt;210&gt; 2022

&lt;211&gt; 531

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (284)

&lt;400&gt; 2022

gaattcggac tactacaggt gctccaccaa attcgtgacc tatttctgtg agcaagtgtc 60  
 tccccctctg agctctctca ccagcccagc tgaaggcatt gatgtccagc tagagggtgt 120  
 aaagttgctg gctgaaatga gctcctctcg tggcgacatg gataaacttg aatccaatct 180  
 gaacaaaactg ttcgacaagt tgctggaatt catgccactt cctcctgaag aggttgagaa 240  
 tggggacagc gctgccaatg aagagcccaa acttcagttt agcnacgttg aatgtttact 300  
 gttcagtttc caccagctcg ggagaaagt gtcggacttc cttattgcta aagttgacgc 360  
 agagaagcta aaagacttca aaatcagggt acagtatttt gctcggagtc tccaagtcta 420  
 tattcgtcag ctccgcctca cccttcaggg aaaatctgga gatgctctga aaacagaaga 480  
 gaacaaaatt aaagtcgttg ctctgaaaat aaccaacaac atcaactcga g 531

&lt;210&gt; 2023

&lt;211&gt; 408

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2023

gaattcggac tactacaggt gggtacacca caaagtaaaa ttgtatggat ttctgaaacc 60  
 ttgtgcattg gatgtggtat ttgtatcaag aaatgtccct ttgtggcttt gtccattgtc 120  
 aacttgccaa gcaatctgga gaaggagaca acccacagat attgtgccaa tgcctttaag 180  
 cttcacaggt tgcctattcc ccgacctgga gaagtacttg ggttggttgg taccaatggg 240  
 atcggaaaat ctacagcatt gaaaattttg gctggaaagc aaaagccaaa cctgggaaag 300  
 catgatgac ctccagactg gcaggagatc ttgacctatt tcaggggttc agagttgcag 360  
 aactacttca ccaagattct ggaggatgac ctgaaggcca tcctcgag 408

&lt;210&gt; 2024

&lt;211&gt; 324

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2024

gaattcggac tactacaggt gttatttggga agaagcagt atgaatctag atcacagcga 60

```

tcccgtgact agagaccaca tggggaccgt tttaaataca gtgcggcaga aactttacca 120
gttcttgcaa gctgaacctc agaattgcttt acaaaaacct gctcgacgtc tgttgataat 180
gctacaagga ctgggtgcctc ctacactgag ttaaagatcc tgcaatgaaa atatttaatt 240
gtgatccaaa attaccaaca tcttcaggca attcccattg ttaaaaattg aaagcattta 300
ttttagtata cgtccgtgct cgag 324

```

&lt;210&gt; 2025

&lt;211&gt; 276

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2025

```

gaattcggac tactacaggt ggagaaagac cataaaggaa aggaaaaggt ggagagaata 60
aaggatcata gcagtcaccac agattttgca atgaacgagc tagaaaaggc ctatcggaat 120
agccagtcac caaaacgttt caaaatgcga gagggattgg ataaattaaa actggcagag 180
ctgcgttttg ccaaagagga agcagaacag gagaaaaaag ggcggtccag aaaggattcg 240
gacagcgact ccaaaaacca agacccaaac ctcgag 276

```

&lt;210&gt; 2026

&lt;211&gt; 430

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2026

```

gaattcggac tactacaggt gctcgtatag acaaggggga gccatcacatg agcatccagc 60
ctgctgaaga tccggacgat tatgacgatg gattctccat gaagcacaca gcagctgccc 120
gtttccagag gaatcacaga ctgacagtg aaattctcag tgaaagtgtg gtgcccgatg 180
tccgttcagt agtcacgact gctcgaatgc aggttcttaa aagacaagtt cagtcgctca 240
tggtgcacga gcgcaagttg gaggcagaat tgttacagat agaggatcga caccaggaaa 300
agaagagaaa attcttgga agcaccgatt cctttaacaa tgagtgaag cggctctgta 360
gtttgaaggt ggaggtggat atggataaga ttgcagcaga gatcgctcaa gcagaagatg 420
caggctcgag 430

```

&lt;210&gt; 2027

&lt;211&gt; 466

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2027

```

gaattcggac tactacaggt gatctcatta aagttactgt gttctgcagg gatattgcta 60
tcctactatg ctgttccatt tgggctgatc aggcggggcc accccccttc ttctgtttaa 120
gtagtgtgga gaagtggatg ggtgctgatg ggcagagaag cacctgttag tagactgcta 180
ggcctgtcct cctgtagcat tgtctctgaa ctttaagctg ctgtattttt gggttacatg 240
aaaagttaa ttttatgagt ccacttaaaa ttgcattcct ttagtgtaac aaggcaggac 300
agagcctggg tgcgctgtac atagtggcta caccctcttg atacacaaag tgaattagtg 360
ttcatatctc cagtaaacaa tgtcagaagt tcttaaaatg tttgtttata ctgtcctttt 420
ctttttttac taaaacatgc aactattgta ctgaagtgac ctcgag 466

```

&lt;210&gt; 2028

&lt;211&gt; 485

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2028

```

gaattcggac tactacaggt gtggatgtag acacaccaag cgggacgaac aacagcgtaa 60
gtaagaagcg ctttgaggtt aagaagtgga atgcagttgc gctttgggct tgggacattg 120
tagtggaaca ttgtgccatc tgcaggaacc acatcatgga cttgtgcata gagtgcgaag 180
caaaccaagc ttctgctact tcggaggaat gtactgtggc atgggggtgta tgtaatcatg 240
cgtttcactt ccactgcatt tcgcgctggg tgaagactcg acaagtttgc ccgctggata 300
atagagagtg ggaatttcag aagtacggtc attagaagct ccgcatgcat agatgtgagg 360

```

cagtgtcacg gctgcagcct acttcagtcg ggcagaacat tcaactgctt tccggcttag 420  
 caccttgctc attatgatct ctgacctgct cgtcatgttg acacacaacc cacctcccc 480  
 tcgag 485

<210> 2029

<211> 347

<212> DNA

<213> Xenopus sp.

<400> 2029

gaattcggac tactacaggt gactgtgtgg gggctgggga gacacagaga gggagagaat 60  
 gcctgctgca gctgacgtg tgccgcccgc cactacgacc acatggtaaa cctaataact 120  
 aggtaaacct agtcagtctg tgcctcaact ctccaaaact tgccttttct ctctgtctgt 180  
 cagagtgcgc tccagagggg tgtaggagag agaggggatt gaagctgttc tgctgcagag 240  
 tagtgctgtt aatagaatga aggagctgtg gctgagctca gaactgagat gacactgtgg 300  
 ctgctttttt tgcacaaaaa tttgagcaaa agaggggcct gctcgag 347

<210> 2030

<211> 302

<212> DNA

<213> Xenopus sp.

<400> 2030

gaattcggac tactacaggt gctatgtccg actccgagca gcagtatatg gaaacgaacg 60  
 ccgagaacgg ccacgaagct tgtgatgccg aagcggccga gggtaagggg gccgggggag 120  
 gccaaaacga cgccgaaggc gatcagatga acgccagcaa aggcgaggag gaggcaggga 180  
 aaatgtttgt cgggtggctg agctgggacg cgagcaaaaa ggacttgaaa gactactttg 240  
 aaaagtgttg tgaggtgtct gactgcacaa tcaagatgga cccaataag ggagatctcg 300  
 ag 302

<210> 2031

<211> 355

<212> DNA

<213> Xenopus sp.

<400> 2031

gaattcggac tactacaggt ggaagaaaaa tttggccagg cagagaagac tgaacttgat 60  
 gctcacctgg aaaatcttct cgcgaaagct gaatgcacaa aggtttggac tgagaagatc 120  
 atgaagcaga cagaggtgct gttacaacca aatccaaatg cccggataga agaattttgt 180  
 tatgagaac ttgaacggaa ggcaccaagc cgtataata ccgaagagca attagctcag 240  
 tatatgaatg atgctggtaa tgagtttggc cctggaacag cgtatggaaa tgctctcatt 300  
 aagtgcggag aaacacaaaa aagaatagga gtggctcaca gaggacttgc tcgag 355

<210> 2032

<211> 334

<212> DNA

<213> Xenopus sp.

<400> 2032

gaattcggac tactacaggt gctctccgca gcccacacc tccggccaag atgtaccgcc 60  
 tgtatgagca ggtctcctat aacagcttca tcgcagccgc catctacatt gtccctggggg 120  
 gcttctcctt ctgtcaagtg agactgaata agaggaaaga atacatgggt cgctgacctg 180  
 cccccagttc agctagaagg tggctgacc cacttgaaa ccaaccctcc cacttcttct 240  
 ctatgtttca atcaagccac cgcccacaga cccacttaaa ggggtgtgtc acctttaa 300  
 gaacttctag tacgatgaag agaggattct cgag 334

<210> 2033

<211> 354

<212> DNA

<213> Xenopus sp.

&lt;400&gt; 2033

```

gaattcccat agcaacaaac agtagaacac acagctgttt actggacatt tagaggactc 60
cacttttacc gctctcattt tgcggtcttg cgcgccgttg atctggatat cgaggctcgt 120
gatcaaaaac aaaaagtgtt tttcaagaat atgttttttg caagttttatc gaagcctggg 180
aagaaccaag gaggatgggt ttgctcttca gatttgggaa agagtcgagt cgctccagtc 240
gccaacgttt tagtagctgc cgtctcccaa acagccctct gtgtttttgt atgtttttgt 300
gttacgggtg ttggtttcat ggacatcgac aacgttttac cagcaaacct cgag      354

```

&lt;210&gt; 2034

&lt;211&gt; 384

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2034

```

gaattccata gcaacaaaca gtagctttta tacatgttag gaaaggaagc cccccccct 60
atgatatatt ggattatttg tcaagacacc caactgctgc aagaagagaa acagatgccg 120
aatataactt gatttcagaa acaatgcaga attttaaatt gattgtattt agaaagtttg 180
atactttagt atgaggagac aaattacatt ttcgcaatag ttcacctaa caagcatctc 240
catatttaaa cttggagaat tcaaccgtaa attaaaaata ccctacagcc ctaccctaca 300
cataccctcc cagcctagct gttactccgg gcaaatgtcc aggtttttgt tcatcccttc 360
gtgacgatt cgcgccagct cgag      384

```

&lt;210&gt; 2035

&lt;211&gt; 338

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2035

```

gaattcccca tagcacaac agtaccagct tccagctggg gcctcagagg aaatacactg 60
acaacttcaa aacttgataa cgacaagaaa ataaaaatag aaaaatgctg agagtgcgca 120
ccatgtttat cgtctgcgct ctgacattac atccacttta tgtctatgga gatgatggaa 180
aggggggctg tgcgccta atcaagtctgga attctttagt aactgcctgt cccttgaatt 240
gtcagaactt cagaaaccca ccagatgtgt gcatattgtc ctgcaagaga ggggtgcttc 300
gcaaggaaac ctatatTTTT caaaatgggg gactcgag      338

```

&lt;210&gt; 2036

&lt;211&gt; 364

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2036

```

gaattcccat agcaacaaac agtacacagg tatattgaaa tcttcaagag cagtcgggct 60
gaggttcgta caaactatga tcctccaga aaactctttg gtatgcagcg accgggcccc 120
tacgacaggg caggagccgg cagaggctat aataatttag gcagaggttt tgaccgaatg 180
agacgtggag catatggagg aggttacagt ggatatgaag attataacgg atataatgag 240
tatgcttttg gtgcagatca gagatttggg cgtgtgtctg ataatagata tggagatggc 300
agcacgtttc agagcacaac tggccattgt gtacacatga gaggactccc ccacagaact 360
cgag      364

```

&lt;210&gt; 2037

&lt;211&gt; 582

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2037

```

gaattcccat agcaacaaac agtaggcgct aatatacctg cgtgtgacgt cacggattcc 60
gaaagagata ggaactggag ccctgagtaa agaataattg gaggaagtcg ggctgttgcg 120
cagaattctg aactattgat caaacgctct accaagtttc acatagaaca gcgtttgggt 180
gtgacgtcat ttccgtaagt gagccgcctc ttatttcttc aggaccgggt actgattcgt 240
gtcttccggt cagaccgaga taaacaaacg ggcctcagaa accaatcggc agactccatt 300
cgtctctgtac agcccgcccta cgcggatccc atagtaatgg cgtgtgtggt gggtggcctc 360

```

```

ctgctgctta tgttcccttt ggcgctggca cagcagcagc cagcatgtga tggatactcg 420
gtcttgatg ggggtggctt gcctgcgata ggtacaccgg ctccggcagct aatgattgag 480
ctagactcat cacgggtcgc caactccgag caggactgtt gggatccttg ttgttccacc 540
gagcgctgcg aactggctga gatgtccgag ggaagcctcg ag 582

```

<210> 2038

<211> 114

<212> DNA

<213> Xenopus sp.

<400> 2038

```

gaattcccat agcaacaaac agtagcttgg cggctcgcag ggttggttag ttgtgaaatc 60
atctgcatgc agttgtccat gttctacaaa ttcagttttg tagtctgtct cgag 114

```

<210> 2039

<211> 344

<212> DNA

<213> Xenopus sp.

<400> 2039

```

gaattcccat agcaacaaac agtaaaagct gccccgggtca gtcacatgca ggatcccttc 60
ccttggggaa atgctcacct tcctatcaga tgctaaagcc cttgcaaacc ttagcaatt 120
cctatgtaaa tatataacac tatgattttt ctccgatatg tgccttttaa gagcaatcta 180
gctttaatag gcaagctctt gagggtctgag cagtacttac atagggaaca gaggagccct 240
tattgcatgg caggaaaatg ttacaaggcc tctcccagct ggcagccatt gtgggtttgc 300
cagaactgca catctctgcc acatggcctc accccaccct cgag 344

```

<210> 2040

<211> 304

<212> DNA

<213> Xenopus sp.

<400> 2040

```

gaattcccat agcaacaaac agtaagtctc tgttggtgag ctgggtgagt tcgctgaggg 60
aatggagcga ctgtgctgct tagtggtcct ggctctcctc tgccgggttcg gtgccgctga 120
caccgccggt aactgctctt tccccgacct ggaaggcacc tgggagtctc aaataggaga 180
gggcaccggg gcaactcggg acaagaccat tgactgctcc cagttgggta aagtgagaac 240
caaactgaca gtcacactga aagaactgaa cattgctgag gatcagaatg ggaacgtgct 300
cgag 304

```

<210> 2041

<211> 405

<212> DNA

<213> Xenopus sp.

<400> 2041

```

gaattcccat agcaacaaac agtaaggaga tcgtcactcc ctctgggata aggaagtagc 60
agcatgggtt ttgtggggaa gacgagcgcc tttgcggcag gtgtttgcgg ggcattgttc 120
ctcgggtatt gcatctactt cgacagaaaa aggagggaatg accccaactt caagaacagg 180
ctgcgagaaa aaagaagaaa acaaaagatt gccgaagaga gagcaggaca gtcaagggtta 240
ccagatctta aagatgcaga ggctgtccaa aaatttttcc ttgaagaaat tcagcttgga 300
gaggagtgtt tggtcgaagg tgattttgaa aagggtgttg atcacttaac aaatgcaatt 360
gccatttgtg gtcagcctca gcagttgcta caggtaatgc tcgag 405

```

<210> 2042

<211> 251

<212> DNA

<213> Xenopus sp.

<400> 2042

```

gaattcccat agcaacaaac agtaagctgg agaagccaga ggagcctggg acaagacatg 60
tgagggaatga agaccagagt ggaaggcaga gatgaagccg aactctattc ccctgctttt 120
ttggtacact ggatgagtga ggagaactac attttcacct gtcagctctt caccctgctc 180
tgctaaactg gttacagata gaacctgtgc atccttctcc attccttaa ttagtacatc 240
actggctcga g 251

```

<210> 2043

<211> 291

<212> DNA

<213> *Xenopus* sp.

<400> 2043

```

gaattcccat agcaacaaac agtaaaaacc aaaaaagagc aggcgccaga agaagagacc 60
cctgtagatg aaagtacaac aggggtcccc caggaacccg agaccaagga tggagccgcg 120
gaaacatctc cagaagcagc tccagagaat ggtgaatgtg acacagcagc gccctctagt 180
gataatacag aggaagtaca gcctgagcct gctgccctcc ctccaactga agattcccct 240
aaacctgtag agagtgaagc caacacagaa gcccccagcg aaccctcga g 291

```

<210> 2044

<211> 360

<212> DNA

<213> *Xenopus* sp.

<400> 2044

```

gaattcccat agcaacaaac agtagtggtc agcaccaa atgcaggtga ttaaagggtt 60
caaaggagc agcacagcct ccaagaccca gattacaaag cttagtaagc tcaatgaagg 120
ctgagaagta aatcccttga gaagcatctc ccatagattt gcttaccctg ctaccagctg 180
tcccttacc tgagggttc aagaacggca tagtggtgtg cattatatcc tccagttact 240
ggttctgcag gtgtaattat gaggcactgt ccactttgac tgctgctctt tatgctgctt 300
ctgccccaga gtccaatatt cctctcctag gttgctttcg tagatataga gctactcgag 360

```

<210> 2045

<211> 281

<212> DNA

<213> *Xenopus* sp.

<400> 2045

```

gaattcccat agcaacaaac agtaaattta agtatattct ggcaaatctg gttagctttg 60
tgccaagcaa ctggtcaaag gggcgggggg tttaaataaa ctaagtttgt ttgaaacct 120
aaactgcatt acactttgtt ctctggggca ctgataatta atatctgcaa tcagattaat 180
tgccgttaaa tgcagcagtt tctagaggaa cacaactag ttaagtagtg tttgttcaca 240
gatgtataaa taaagtgtgc aggtgcttgc ccttactcga g 281

```

<210> 2046

<211> 467

<212> DNA

<213> *Xenopus* sp.

<220>

<221> unsure

<222> (71)..(72)

<400> 2046

```

gaattcccat agcaacaaac agtaggaggg gatccccgtt ttgagaaga agaaaaagaa 60
gaaacaggtc nnatgcgagg ggcttgagaa ccagcccacg tgggaaatga acatgaggac 120
agacctgctt gagagcgcca aggagagaat cctgaaacta ctcaacacgg gctcagtaaa 180
ggaactgaaa tccctgcaga ggatcggaga caagaaggcc aagctgatta ttggctggag 240
agaagtcaat gggcctttta agaattgtgg agagttggcg tgtttggaag gaatctctgc 300
taaacaagta tcgtccttta taaaggcaaa tatcatgagc agcatcgcca gctgaaacct 360
gtaccatcat caggctgcgg cccgggtcat acacgctcca agggccactg attttattcc 420

```

tcaccaacaa cttgaaatcc ctgagccct tatggcaaag gctcgag

467

<210> 2047

<211> 294

<212> DNA

<213> *Xenopus* sp.

<400> 2047

gaattcccat agcaacaaac agtaaatgat tattgttatt tttttttttt ttatttcaca 60  
gcaatagaac atacatttgt tgtttgcaca gagttgcaga gatttcccga tgggtcgct 120  
gacctgattt tatttatgtt tttatttgat gttgcacaga atatgaattt ttggaaataa 180  
tttatccccc ggcaaaaaaa cataaaagtg gagaatgcag ggaccattcc taaactccct 240  
cctatataac cattatccat ctgttacttc agagcaaata ccaactcgact cgag 294

<210> 2048

<211> 525

<212> DNA

<213> *Xenopus* sp.

<400> 2048

gaattcccat agcaacaaac agtacaggga tgtcgccatg taaaacagaa gggcaccatg 60  
tgtgcgttat gagtctgctt tattttccat ctgagacaag cgttgcttgc cctgtcaaca 120  
aaatattatt ttattgacac tttatgaata gagtgctagc cattttttgc actgtcatgt 180  
tgtagaatgg accaaaaata accagcagac ccatgaacat tgcttaattt ttttctgatg 240  
ttgcaaatcg agtggccgga cacattttag gagtcaagca atcatacaag ttctacattt 300  
cctactagat cctctcaatt catccctaca aatgtacagt acctggccat taaaggggaa 360  
ctaaagtcta aaatagaata atgctagaaa tgctgtatgt tgtgtactaa acatgaactc 420  
actgcaccag aactatgtta aacatccttg caagaccaag actgtgcaca tgctcagtgt 480  
ggtctgggct tctgttggga ggtaagctt agggatttac tcgag 525

<210> 2049

<211> 415

<212> DNA

<213> *Xenopus* sp.

<400> 2049

gaattcccat agcaacaaac agtaagaagt ccgtgtctgc ttatccagct gcaaaatgcc 60  
caactgggga ggtggaaaca aatgtggagc ctgtggcagc aatgtttatc atgctgaaga 120  
agtgcagtgc gatgggaaga gttaccacaa atgctgcttc ctttgatagg tatgccgaaa 180  
aaacctggac agcacaactg tagccattca cgatgatgag atttattgtc gatcatgtta 240  
tgggaaaaag tatggcccga aaggatatgg atatggccaa ggagctggca ctttgaatat 300  
ggacagaggg gaaaggcttg gcataaagcc ggaggaaaat ctggcacggc agaataccag 360  
ttcaaatcct tctaagtatg ctcaaaagct tggaggtgct gagaaggacc tcgag 415

<210> 2050

<211> 414

<212> DNA

<213> *Xenopus* sp.

<400> 2050

gattcccata gcaacaaaca gtagccggaa ccatgatcgc tagggtgtta ggtcctcggt 60  
accagcaact ggcaagaac tgggtctctg tcctagccac ctggggatca gtaggagcag 120  
tgggactgat atgggtctaca gactggaggg tgtctcttga ttatgttcca tatgtaagt 180  
gaaagttaa ggatgagaaa taaacttcta ccgatccact gtctactatg agcatgtcct 240  
ggatttggcc cagatcacaa aatcttcagt gtccagtatg ttaatgcaag gaaatggaca 300  
gaccgtcttt acaccttggg tgaagctgct tatttatgaa taaatgttgg acttgcgtat 360  
ttcagaatta tttgtgaaa tgtattggcg tctactttaa ctgtactgct cgag 414

<210> 2051

<211> 432

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2051

```

gaattcccat agcaacaaac agtaattccc atagcaacaa acagtaaaaa tttgccagta 60
cccctaagt gcaacaaaga gcaaacagct gtggagcaag tgccagagag ttctcaagt 120
gagaaagtgc ttgctttgga gcacatgcct gagccagaga gttctgaact ggaagtggaa 180
cataagtctg agccagagag ttccgaactg gaagtggagc atggagagaa agtgcttcct 240
gtggagcaaa tccttgagcc agagagttct gacttagaaa tggccaatca ttctgttgaa 300
caacaaaaag ttccagcgga tgtattcctg actgcagctg atgccccaat actcccttcc 360
tcgcccacac caaatatata gaaggaaaat gagcaggaag cacctaagga gccagagcat 420
ggtacactcg ag                                     432

```

&lt;210&gt; 2052

&lt;211&gt; 364

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2052

```

gaattcccat agcaacaaac agtaagcaat tgaaaaattt gcattcagta agatacttaa 60
ttaaatggta acctcccctt taatgacaca aggcattgcta aatcagat ccacgccag 120
gatgagatag aatgtagtc gcataattac acaagggcaa aatcgaatcc taagtactc 180
cagcagtgtg ggaacacaa cgtagcagtt ctgttaaaca actaattgac ctttcagtgc 240
acatcaaaga caagttcact ttctcctcc atctgaactg tgcattgtgt aatcaactgg 300
aagtgcatt gcattgttga aacgggatag gaaccctcct cccattgcac ggcaataact 360
cgag                                     364

```

&lt;210&gt; 2053

&lt;211&gt; 393

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2053

```

gaattcccat agcaacaaac agtaagttaa tggccacgtt ctattttatt tttgaaatga 60
gacttgctgt tcagcattgc cagtataatc agaaagagga ctctgcagca atgttgaga 120
tctacttacc tagacaacgt cattgagaag atttgtggac cagaatctgt ttttatgtct 180
gctgacttga aatccctttc ttataataat tggactgggt aggggtgttc ccagcaaagt 240
actgtattat tgtgattgta acaccacaca gaagaacata taggattaag ctatttgcca 300
gatgcacaag tagcattgct cccgatgtgc tgattaggat atctgcataa aatgtgcctg 360
tgtgtatacc tcaataaatg ttcaaccctc gag                                     393

```

&lt;210&gt; 2054

&lt;211&gt; 332

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2054

```

gaattcccat agcaacaaac agtagcgcta aagcgacacg ataaacacag tgggagatac 60
caagtccgta gcgcacaggc cgctgcccc tctcactctc cagtggaatg atcgtactac 120
ccgccgctgt gttectcgtc ctgctggttt tctctcaagc agcaaaccca tgctgttcaa 180
atccctgtca aaaccaagggt gtatgcatga ctgttggtt tgaccgctat gaatgcgact 240
gcacgagAAC tggcttctat ggagaaaact gcactaaacc ggaattttta tcatgggtga 300
ggctgaagct gaagccgacc cccgtactcg ag                                     332

```

&lt;210&gt; 2055

&lt;211&gt; 383

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2055

```

gaattcccat agcaacaaac agtagcactc tcaatctcat agtttttact tacaagggac 60
acccacgttg actccatctc tctcagtcgc ccacccgctg taagttggga gttcttcctc 120
tgccagttca agtcttgaat cttttttcgt aacttctgaa gatctttctg cgcacagtca 180
atcatatgaa ccaggttctc gttattggct ttccagacgt tgcagccgtg ctgggacatg 240
aactccaagt tctctattct gacggcctgg tgttccagtt gggccatcga attattgaca 300
cattcctgcc aagccgtgat gtcattcctc tggccgcatg agggggccgg taactcatac 360
ctcttcatgc tgagaagctc gag 383

```

&lt;210&gt; 2056

&lt;211&gt; 324

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2056

```

gaattcccat agcaacaaac agtaaggaga aaccatcaca tctgtcctga aaaccgggaa 60
ggaaagagga tcccaactat ggataagagg ggccccatcg taaccctttg cctgctgctg 120
ctgatctcca agatatcggc agaagacgtt tgcgagagtg gcctctacac aaacagcggc 180
aatgctgtgt ccttgtgccc agcgggattc ggggtggtgg ttccctgccc agattcagat 240
actaagtgtg aaccctgcat agagaactct actttctctg atgtcagaag cgccaaggca 300
aagcgccagc cacgtgttct cgag 324

```

&lt;210&gt; 2057

&lt;211&gt; 450

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2057

```

gaattcccat agcaacaaac agtacatgaa tcaaaattct aattcctgag aatgagacat 60
tttaattccc ctttcgtgcc ttgcacattc tctgaactac gtccaataat tctaattttg 120
cagtgatatt tgtgccctta caaaagaatg cgttttcttt ctttattttt aggattttat 180
gagctgagtg atgggacttc aggatccctc tccaattcct ccaactcagt gttcagcgaa 240
tgtttatcca gctgccactc cggcacctgc ttttgcaacc ctttggaac atcattaaac 300
ctcacagatg gtcaagcaaa gtctgcagac gactttcttg aatggctgga ctacagagaa 360
agtcaacatg aaactggcac agttcgccgc tccttttctg caccacattc caactctgtc 420
gacattgggg cagatgtgca ctccctcgag 450

```

&lt;210&gt; 2058

&lt;211&gt; 494

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2058

```

gaattcccat agcaacaaag agtacaactg cagagaaaat gaagctgctt cgagcttgcc 60
tgctcctgat ctttttttat tttatctgca ttacagattg tgctacattc agatttgcac 120
cctattatgc cagccacatg gttttgcaac agaagccctc acaagctgtt atatggggct 180
atggagaagt tggggcttct gtcacagtct ctctttataa aggacctgag accattttaa 240
aaaagtctgt tgccataaat gacgatgcag gtgtctggaa agtactgctg gatcctgttg 300
atcatggagg accctactgg ttacttgctc agcaacatta ccagaaagac attactgatt 360
tggccctgca cgacattttg tttggtgatg tttggctttg tgggtggcag agcaacatgg 420
agatgactgt ttcacaggta tttaacgctg gttaaagaact ggcaaaagct gctgattatc 480
ccaaccttct cgag 494

```

&lt;210&gt; 2059

&lt;211&gt; 141

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2059

```

gaattcccat agcaacaaac agtaccata gcaacaaaca gtaggcagct tccttgtctg 60
aggagttggc tagtttgtaa aatccacagc caaattttac ggatcccagc gacgatcagg 120

```

atgaagccac tgttgctcga g

141

&lt;210&gt; 2060

&lt;211&gt; 549

&lt;212&gt; DNA

&lt;213&gt; Xenopus sp.

&lt;400&gt; 2060

```

gaattcccat agcaacaaac agtacttccc atagcaacaa acagtaattc ccatagcaac 60
aaacagtacc catagcaaca aacagtacc atagcaacaa cagtaattta ctgtcctagt 120
agctgcatta gactgtaact tatttgcccc gtctcctaga gaagttaata tatgtccctc 180
ggacacgtga ccacgatttg cactagtgtt cattccggct tgtgaattgc tctgtggaag 240
cagtgaagcc ccccaacacc tgactgcctg ggattcccat ccccgagga gcaagtgate 300
tgaatggggg gcactaacc accaactt ctatttgcta aactaagctg caaaccaga 360
gagcaccccc tcacctcttg tgagtggaca gaaatcttta tttgggtcc taaattgccc 420
cgttgacccc ccaaactttt accattgatc tcttttaact gtgtcgtaag taccaccaat 480
tgcccccttt tcccccaaag agatcagaga gaaatgccct ttctaaaaat ctccagcctc 540
atgctcgag                                     549

```

&lt;210&gt; 2061

&lt;211&gt; 410

&lt;212&gt; DNA

&lt;213&gt; Xenopus sp.

&lt;400&gt; 2061

```

gaattcccat agcaacaaac agtaggggtt tcatcatctt acaacagtac aaacaagggt 60
ttcaacatgg ctgccattcc atccagtggg tcaactgtcg caaccatgt ctattaccgc 120
agacgtttgg gatccacttt cagcagcagc tcatgtggga gtgtggacta ctctggagaa 180
gtcatccctc accaccagg tctccgaaa gctgatcctg gtcactgggt ggccagcttc 240
ttttttggaa aatccacca tctgtcatg acaaccgttt cagaatcccc agagaactca 300
ggaaagtttc gtatcaccaa tggactgggt ccatgtggcc tgactcaaga gtctgtgcag 360
aagcaaaaag tcagtgtatc caagtctaac tccagcccc ctgctcgag 410

```

&lt;210&gt; 2062

&lt;211&gt; 433

&lt;212&gt; DNA

&lt;213&gt; Xenopus sp.

&lt;400&gt; 2062

```

gaattcccat agcaacaaac agtacagcat gttgcagtgg aagaaaaaaa tcttgaaaag 60
tgtcggattc tttttctgcc tgctgatcac atttacattt cttctgaatg ggacatctcc 120
tggactgttt actcaggacc agcaaaagga ttctgggtct cagatgttaa gtaatcaaaa 180
aagggaact taccatgcc cagatgggtt ctgggaaatc aaatccaaac ttggtcctac 240
aaaagcaata ccgaaaacag aattgcagcc aacagagtgg gatatttact ctactaactg 300
ttctgccaac tggaaatatta ccaaaatgga atggtataaa tcattggaac cacatttcca 360
acagttcatt ctctaccgac actgccgcta ctttcctatg attattaaca accagcagaa 420
atgcagcctc gag                                     433

```

&lt;210&gt; 2063

&lt;211&gt; 378

&lt;212&gt; DNA

&lt;213&gt; Xenopus sp.

&lt;400&gt; 2063

```

gaattcccat agcaacaaac agtactcatt attcgtcttt atcggaggag ccgggggtcgg 60
cgggtactgt gtggtttcgg agaagggaca ggtatagggg cagatataag gacaggtgta 120
gggtttccag gtgaaactag agccggagtt tcgtccttgg ttgagattga aggaggggccc 180
gtccgaccgg tctgacctgc tggggaagag gataaagaat cggccgagga agcgattatt 240
attattatta agtcggagac tcgcaagact ttgggttccg tctgttgag gatgaagttc 300
gtgtcggtgc tgagattggg ggcagcgcta atgtgtctcg tcctggtgac acgagcccg 360

```

aatccaggag cgctcgag

378

&lt;210&gt; 2064

&lt;211&gt; 280

&lt;212&gt; DNA

&lt;213&gt; Xenopus sp.

&lt;400&gt; 2064

```

gaattcccat agcaacaaac agtaaattct tgcaagtggg ggaccacaag cgttggttaa 60
tatcatgagg acttacagtt atgagaaact tctgtggacc acaagtcggg tgcttaaggt 120
gctatccgtg tgctctagca acaagcctgc tatagttaa gctggtggaa tgcaagcttt 180
aggactccat ctacagact caagccaacg tttggttcag aattgtcttt ggacactaag 240
aaacctttca gatgcagcaa ctaaacagga ggctctcgag                280

```

&lt;210&gt; 2065

&lt;211&gt; 316

&lt;212&gt; DNA

&lt;213&gt; Xenopus sp.

&lt;400&gt; 2065

```

gaattcccat agcaacaaac agtactgtgt gtgggtccgg agagctgcag ggtcaagagg 60
gggtgccggc ggctgtgtg tgaacttggc caacatgagg aagttttggg caatcgggtc 120
ttgtgtgata ttattggctt ttgcatctgt tcaagctgaa gatgaagttg aagtggatgc 180
tactgtagaa gatgacattg gaaaaagtag ggaaggatct agaacagatg atgaagttgt 240
aagcagggaa gaggaagcaa tccagttaga tggcctcaat gctgctcaaa ttaaagaaat 300
acgggagggg ctcgag                316

```

&lt;210&gt; 2066

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Xenopus sp.

&lt;400&gt; 2066

```

gaattcccat agcaacaaac agtacacacc agcaacacca tgaggatagg agccatcttt 60
gggttgggac ttgcatatgc tgggttcaat cgtgaggatg ttctgaccct cttgcttcca 120
gtgatggggg atttaaagtc cagtattggg gttgttggag tgacagccct tgctgtggg 180
atgatagctg tcggatcctg taatgtgggc gttacatcca caattctaca aactatcatg 240
gagaaatctg aacaggagct aaaagataca tttgctcgct ggttgccact tggcctaggg 300
ctgaatcact tggggaaggg tgaagcactc gag                333

```

&lt;210&gt; 2067

&lt;211&gt; 313

&lt;212&gt; DNA

&lt;213&gt; Xenopus sp.

&lt;400&gt; 2067

```

gaattcggac tactacaggt ggggcagaga aaatccgcca tgaaggacgg aaaagggaca 60
gggaaagcga agaagcattg gagaccgtac aagcaaagtg tgatggcagg cagtcagaag 120
gaaggaaaag ggttttcttt gtggagaaaa caaaagatcc agctggaata taaaaaacta 180
ctaaggaaac aaaagaagcc cagtactgtt aatgaagatc tctacaaaga caattaccct 240
gaacacttga agcacctgta cctagctgaa gaagaaatgc tgaaaaagaa agaagaaagt 300
aggaaacctc gag                313

```

&lt;210&gt; 2068

&lt;211&gt; 412

&lt;212&gt; DNA

&lt;213&gt; Xenopus sp.

&lt;400&gt; 2068

```

gaattcggac tactacaggt gattcaccct cgggcagcac gacatgccca aactccggcg 60

```

```

ggaagatcta caaggagctg tgcactgca agctggcggt gtgaggccac gcgtcttcta 120
acgtgagaca aacgtgtgca tccaacgtgc gccattattg taggggaccc tgcggagact 180
ttttacttgc ggtgggtggc cctccggggg ctgcgtgat catcgtcttt gccccttccc 240
ggtggaccgt actacctgtt taccaccagt ggtgcctcgc ccacccgtae attgaaggat 300
tctgtggatc aattccaggg gggagtcctt gctgcgcgt ttcgctggtg gatcgtcttt 360
cctcgtcctt cgtgtcccggt gccctctcca caatccccc ccaaaactcg ag 412

```

<210> 2069

<211> 310

<212> DNA

<213> *Xenopus* sp.

<400> 2069

```

gaattcggac tactacaggt gacccacccc tgctgttaac cctctttttg ccagttgttc 60
aacaagctgg gaaagagttg ttaaatcagt ctgtagcatg ggaaagctgt gaaactgtac 120
agttaagatt atgtatttgc ctttaatttg gactgttccc ccccccccc agtttgcctg 180
ttatcatctg tgtctgagct gccctgttaa tatggtctgc tcctaaacct gggactctgc 240
agtgatttag aataccttac ccccttccct tgttaggctc tgattttaaa taaagaacca 300
agtgctcgag 310

```

<210> 2070

<211> 315

<212> DNA

<213> *Xenopus* sp.

<400> 2070

```

gaattcggac tactacaggt ggaattcctg agtttcactg agcgtacccc gagcatcgtc 60
tacaatatcc tcctcttcag tctgactagt gccctgggac agacctttat cttcatgacg 120
gtggtatatt tcggcccgcct tacttgctct ataatacaga caactcggaa attcttccac 180
atcctggcct ctgttatact gttttctaata ccgatcagca gcacccagtg ggtagggacc 240
atcctggtgt ttttaggtct gggactggat gcaacgtatg gaaaaggatc caagaaaccg 300
cccactgcc tcgag 315

```

<210> 2071

<211> 345

<212> DNA

<213> *Xenopus* sp.

<400> 2071

```

gaattcggac tactacaggt gcatcaacaa gaattggaaa gttcggagcc aggttctttc 60
atgtggcttt tgaggaggag tttgggagag ttaaagggtca ttttgggcct attaacagtt 120
tggcattcca tccaaatgga aagagttaca gcagtggagg agaggatgga tacgttagaa 180
tacattactt tgactcgcaa ctttcgact ttgaatttga atcctgagac agttgcttca 240
tgcttgctta taccctactt aatttgcgct cacacacaca atttaattga ttgctcaatt 300
acatcatgca gattgtatac ttttacaata aatggaaccc tcgag 345

```

<210> 2072

<211> 310

<212> DNA

<213> *Xenopus* sp.

<400> 2072

```

gaattcggac tactacaggt gttactttcc agggaaaaat taaacaatgt cttaactcat 60
tagagttagt gctgtgcaga tcttccag ttgcctctgt gtttagggag acattgtaac 120
actacaaaaa tgcataatac actacttttc ttttctcac tgactctgtt cttcactttg 180
aatagaaatc tcaggcactt ggacactatc tggcctatac cagcatcatt catatacctt 240
tccttctgct tgaacccctt tacaagttgt ggaatcctga cgtttttctc tttttggctg 300
gagactcgag 310

```

<210> 2073

&lt;211&gt; 320

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2073

```

gaattggact actacaggtg aaaatacaga gtggctttga ggattgcaaa ggacccatca 60
tttgaacggc tgccttgctc tcaccctgga acctatgcag atgactgcct tgtacaaaga 120
gttactcagc acaaagtgtt tattgtggct acagtggaca gagacctgaa aagaagaatt 180
cggaaaatcc ctggtgttcc catcatgtac atctcaaacc acagatataa tattgaacga 240
atgccagatg actatggagc tcctcgtttt taagatttgt ttgttcggca ttcaaacctt 300
tattataatg tggactcgag                                     320

```

&lt;210&gt; 2074

&lt;211&gt; 406

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2074

```

gaattcggac tactacaggt ggtgacactg tatgtgacag aggaaacttg cagtgggcaa 60
atatcaatac gtttcccaaa tcataggaac attatcattc ccattggata aatctgccac 120
taagtgtttg ggaatcaaga gacccagaga caatagagag cccaaggcat tctaattctt 180
gttaaaactac aactcacctc acttatttgt atagacattg gctttatcca ataacagtgc 240
taagactccc attgccattg tactttctct gcacaagtat cctggaagtc ttcccttaaa 300
ctttgcctta attcagagtt tccatgtggg tagtgtattc tgaacctttg ctgtatgttt 360
ttgagggcca aatcattctg atgtatactg caatgtgtac ctcgag                                     406

```

&lt;210&gt; 2075

&lt;211&gt; 382

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2075

```

gaattcggac tactacaggt gcaagcacag gaaacaagag tacgaaaaga taagtgaaaa 60
gaagatgtcc actccagttg aggtgttgtg taagggtctt cctgcagaat ttgcaatgta 120
tctgaactac tgccgctggt tactgattga agaggcaccc gactacatgt atctgcgaca 180
actattccgt attctgttca gaacattaaa ccaccagtac gactacacat ttgactggac 240
aatgttaaaag cagaaggcag ctccagcaagc agcctcctcc agtgggcagg gccagcaagc 300
ccaaaccccc acaggatttt gaacatgaaa ggagcagaga tcacagacca ggctggagct 360
ggacctgtca ctccctctcg ag                                     382

```

&lt;210&gt; 2076

&lt;211&gt; 615

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2076

```

gaattcggac tactacaggt gatcaggagt cggatttagt tctgtaggca caaggattcg 60
gctgaatcca aatcctgctg gaaaaaggct gaatcctaaa cagaaattct ggattcgggtg 120
catccctagt tttttaataa accgggacca attgctctag aaatacagtc tatgaactag 180
gtcatttacc tttccctctt gtaggaaagg acttggtgtt ggagcaccgc gtatgaattt 240
ttgcgtctcg gcttattagg attatttcta ctgttccttg gatgttcggg gtcgtgatgc 300
ctttgccgag acctgttaat tctctgtatg ttcacgctt actttctttt cgtcctacaa 360
aacctgcaat gcttttgtct gaattctgtg ttgttttttt taaagtttgt ttctgtgaga 420
agtgtgtatt tggtaatctc tagatatgtg ttaatgtttt actctgagtg gtgtgcacct 480
ttatattcat tccatgcaat ctttcattta gtccccctg ctttcacaggc aggattccga 540
cacgttacaa acctttccat ttggagacct ctctggggaa taaacgggtt caaataacca 600
cttcaacggc tcgag                                     615

```

&lt;210&gt; 2077

&lt;211&gt; 397

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2077

```

gaattcggac tactacaggt gagcgagacg aatcgggaat gctgaatcct tccaatttat 60
ttcaccaaac cgtgtcaaat aattttgtgg atatttcaaa aggtctcccc atgtctttgt 120
atgggggcac agtgatccct tcacatacac aaatgtcggg cgtcctgat tgtcccgtat 180
ttaatggagt tcaccacaaa gatgctgctg ctgctgctac ttggagtcca atgattaagg 240
tggtgcccag ttcagtcgaa tgtacggatg cccagaagat gtggccagga acctggacac 300
cccatattgg aaatgtgcat ttaaagtacg ttaactgaat tagaggaaac cgttcaacac 360
aaaactgaaa tacttgagcg caccggggcg actcgag 397

```

&lt;210&gt; 2078

&lt;211&gt; 410

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2078

```

gaattcggac tactacaggt gaccaccagg ccgctgctcc aaccacttgc aggagaagat 60
tcaaaagtgt tatgagaaga agttaaaga agggacagac atgaaccgca ttatccaaaa 120
aaagaaagaa ttccggaacc ccagcatcta cgagaagctc atccagtttt gctccattga 180
tgaacttggc actaattacc cttaagacat gtttgaccca catggatggg ctgaagactc 240
ctactatgag tctcttgcta aagcccaaaa gattgagatg gataagctgg aaaaggccaa 300
aaaagaacga acgaagattg agtttggtac aggcactaag aagggcacia cgaccagtgc 360
aaccacaggg acaaccagta ccacaaccac atctacagca gatgctcgag 410

```

&lt;210&gt; 2079

&lt;211&gt; 517

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2079

```

gaattcggac tactacaggt ggaacccttc ctgttgctct tatataacct ccgtcttgtc 60
agtcgtgtgc aaacgctttt cctgtgccag tcctgttttt tcatatcttt taagacccca 120
gctgatctgt atgcatagca ccaggacctg gcagacatat tggaaactat tggcattatg 180
atcttttttt ttttttaa atggggaggtcc gtctccttgg ttgttattgt cagcacccta 240
aatgcccaaca tttaacaggg cagagcagag ttttggtgtg ttttgggggt cggtagcctg 300
gcgagtctct tgcttttccc gcaaaggggc atcgggtggc acatattggc agtaactccat 360
gccactgatg ttcaacctgt ggtccgcaag cctttgttga actttgtagt tcaaataacc 420
cagtcggggg agtcaaacc tacacttcag ttgatgcacc cacttttatt aatgacaccc 480
tgaggctaaa gtgttacgtt aaaggggacc gctcgag 517

```

&lt;210&gt; 2080

&lt;211&gt; 371

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2080

```

gaattcggac tactacaggt gttagagggg ggcctaggcc tgtgctatca cccgaacctc 60
aaggctcctag tctgagtgat agcccagaac cttgtgatag cactgagtga cactacaggg 120
caacactaca gggcagctgg gaactgaaat accccattac tgccaacatt ccattccac 180
aagcaaagaa atagccagaa agcagaaaag aaagttagga attgatcag agtgttgagt 240
tctctataaa tggaaaggtaa aagaaaggca ttggattgga ttgggcagca gagagatatg 300
aaggaagggt caggttagtt agcagggggc ggtaaaggag ttgaattgt ttagcatggt 360
aagagctcga g 371

```

&lt;210&gt; 2081

&lt;211&gt; 687

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2081

```

gaattcggac tactacaggt ggtgagaagc agtagatctc aggggagtct tgcaacaatg 60
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tactttgccc ccttgctgca cgatatggtg aattatatca acaagggtcaa cactacatgg 180
aaggctgggc acaactttgc taatgctgat gtacactatg tgaaacggct ctgtggaaca 240
caccttaatg gccccagct tcaaaagagg tttgggtttg ctgatgacct agaccttcca 300
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cagggatcat gcggctcttg ctgggcgttt ggtgcggttg aagccatctc tgatcgtgtt 420
tgtgttcaca ccaatgggaa ggtgaacgtg gaggtgtctg ctgaagatct cctgtcctgc 480
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tggactgaga ccggttttgt ttccgggggc ttgtatgact cccatgttgg ctgcaggccg 600
tactctatcc ctccctgcga gcaccatgtg aatggctcca ggccgtcctg caagggggaa 660
gagggcgata ccccaaagtg cctcgag 687

```

&lt;210&gt; 2082

&lt;211&gt; 602

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2082

```

gaattcggac tactacaggt gctactgaga ggaggaagat gcagctcgtt acagctctga 60
ggctcggggc agcgctaata tgctctcgcc tgggtggcga agtccagagt caaggatgca 120
aatgtagaac gactacatg ggtaaatgcg ataacagcgg tgcatcttca gattgtcagt 180
gtaccctcac cataggggcc gattcccaac ctgtgaactg ctcaaaatta attcctaaat 240
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gaaccgacaa aggggacaaa aactggaagt gcccgagct ggtcagaact aactgggtgt 480
atggtgaaat gaaacgcaat aacacagact cagtgaatga tgacgacttg aaaaaagcac 540
ttaaaacaac aatagtgaat cgatatggat tacctgaaaa atgtgtttct gttgagctcg 600
ag 602

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&lt;210&gt; 2083

&lt;211&gt; 425

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2083

```

gaattcggac tactacaggt gggaaacagc gactctgggt gtagacgaga cggcgcggtat 60
attgcaagat gatcatcccg gtcagatgct ttacatgttg gaagattgta ggcaataaat 120
gggaggctta ccttggcctt ttacaggctg aatatacaga aggtgatgct ctggatgcct 180
tgggcctgaa aaggctactg tgctgctcga tgctcctcgc tcacgtcgac ttgattgaga 240
aactgttaaa ctacgcccct ttggagaaat gaggggtccg ttccatcccg tgcaatctag 300
accaatcaaa tgtttacaag cacagggaagg agaaccctcg gcttccatta taccctacct 360
gctgaacttc cagaggaaaa atctgtttct aacctgaaa ccattgtgaa cagggcagtc 420
tcgag 425

```

&lt;210&gt; 2084

&lt;211&gt; 498

&lt;212&gt; DNA

<213> *Xenopus* sp.

&lt;400&gt; 2084

```

gaattcggac tactacaggt gccgggagga gatattctta caggagatgg aggagcagaa 60
agaaaatcgg ccgctcgata cagaggattc ggtggttgag gaggatttgt gcaaaaagct 120
ttcaagaaac ttgatctcgt ttggtgtcaa gcagagggtg cgatttgatg gtcaggagga 180
caatgggaact tctacagtat cctcaaacac tagtgatttc agtgatccag tttataaaga 240
aattgccatt gctaattggt gtgtcaatag agtgacaaag gatgagctga aggcgaagct 300
tgtagagcac aaacttgaca ctagagggtg taaagatgtg ctgagaaaaga gactgaagaa 360
ctactacaag aagcagaaat tgacacatgc attgcataag gactcaaaaca cagactgcta 420

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ttatgactac atctgtgtca ttgactttga agcaacctgt gaagcgggta actctctaga 480  
ctacccccat ttctcgag 498

<210> 2085

<211> 306

<212> DNA

<213> *Xenopus* sp.

<400> 2085

gaattcggac tactacaggt gtttatgatg aaaaagtagt ccatcccttg acttaataat 60  
tgtttggtcc acttccctgc tctgtctgc atgtgggtgca caggcactgt atgtaactca 120  
agctcatcta tcaatctgcc atttatgctg cccctaatac cttttcttct ccttctttta 180  
gcaataaaaa ctgaggggat ctcccctcag cctgctgcag agctaggtgt ccaaagccct 240  
gcaaaagtgc taactccttc cctgcctttg ccaaccttgg agcctgttcc ttctgccccg 300  
ctcgag 306

<210> 2086

<211> 385

<212> DNA

<213> *Xenopus* sp.

<400> 2086

gaattcggac tactacaggt gtttcgcttt tctttactgc atggctgctc ttgcatttta 60  
tctaggttta atgcacttgt atcgggactc tccaaaattt ccattatgtg acttcttcat 120  
tgctgttgcc ttgtctttaa tgtggctagt tagttcctca gcttgggcta aagggttgac 180  
agatattaaa atttccacca gccctcacaa tattgtgcaa aatcactgcc cactgaatta 240  
caaatgtctg cctggacaag aatcgcccat ggggaagtctg aacatctctg tggcttttgg 300  
atttttgaat ctgattctgt gggcaggtaa tgcttggttt gtatacaagg agaccagtct 360  
acattcccca cgcacaac tcgag 385

<210> 2087

<211> 198

<212> DNA

<213> *Rattus* sp.

<400> 2087

gaattcggcc aaagaggcct agaactctgg actctgggaa aagcattgac catgagggtg 60  
accctgttat tggctgccct acttgggtat atctactgct aagaaacgtt tgtgggagat 120  
caagttcttg agatcatccc aagtcatgaa gagcaaatga gaactctgct gcaattggag 180  
gctgaagagc atctcgag 198

<210> 2088

<211> 176

<212> DNA

<213> *Rattus* sp.

<400> 2088

gaattcggcc aaagaggcct attataagag ttgctttggt catggtttct cttataagga 60  
caatatttaa ttggggctgg cttatagatt ccgaggttct agcagaactt gccctcatca 120  
gttcaaaagcc tgaattgttt cctcatacac taggtactgc gtcaacatac ctcgag 176

<210> 2089

<211> 323

<212> DNA

<213> *Rattus* sp.

<400> 2089

gaattcggcc aaagaggcct agcaaaatga agtttgttct gctgctttcc ctcatgggtg 60  
tctgctgggc tcaatatgac ccacacactg cggatgggag gactgctatt gtccacctgt 120  
tcgagtggcg ctgggctgat attgccaagg aatgtgagcg gtacttagca cctaagggat 180

ttggaggggt gcaggctctt ccacccaatg aaaatattat aattaataat ccatcaaggc 240  
cttgggtggga aagatatcaa ccaatcagct acaaaatttg ctcaaggctt ggaaatgaaa 300  
atgaattcaa aggatggctc gag 323

<210> 2090  
<211> 176  
<212> DNA  
<213> Rattus sp.

<400> 2090  
gaattcggcc aaagaggcct attataagag ttgctttggt catggtttct cttataagga 60  
caatatttaa ttggggctgg cttatagatt ccgaggttct agcagaactt gccctcatca 120  
gttcaaagcc tgaattgttt cctcatcac taggtactgc gtcaacatac ctcgag 176

<210> 2091  
<211> 176  
<212> DNA  
<213> Rattus sp.

<400> 2091  
gaattcggcc aaagaggcct attataagag ttgctttggt catggtttct cttataagga 60  
caatatttaa ttggggctgg cttatagatt ccgaggttct agcagaactt gccctcatca 120  
gttcaaagcc tgaattgttt cctcatcac taggtactgc gtcaacatac ctcgag 176

<210> 2092  
<211> 346  
<212> DNA  
<213> Rattus sp.

<400> 2092  
gaaattcggc caaagaggcc tacttggtag attatccaaa catcgtcaaa tttcatgct 60  
atttatttta tttctttttt tttttttttt ttgccaaaag atgagttgtg tttgtttgaa 120  
atctgagaca ctgtgttcca tttggtgttt ctgttcaaat gcacccctcat tgcctggaa 180  
acccttcccc agatgtcaca ctacatgtca ggtccaggag gatgactcgc aagtcctaca 240  
ggtttcatta cgaaaacttc aaggttccca gtggaaacct ggaaccgtc agctgatgct 300  
caccaaatgc tcgcccttca cccctgcggg ggccctggcg ctcgag 346

<210> 2093  
<211> 176  
<212> DNA  
<213> Rattus sp.

<400> 2093  
gaattcggcc aaagaggcct attataagag ttgctttggt catggtttct cttataagga 60  
caatatttaa ttggggctgg cttatagatt ccgaggttct agcagaactt gccctcatca 120  
gttcaaagcc tgaattgttt cctcatcac taggtactgc gtcaacatac ctcgag 176

<210> 2094  
<211> 323  
<212> DNA  
<213> Rattus sp.

<400> 2094  
gaattcggcc aaagaggcct agcaaaatga agtttgttct gctgctttcc ctcatgggt 60  
tctgctgggc tcaatatgac ccacacactg cggatgggag gactgctatt gtccacctgt 120  
tcgagtggtg ctgggctgat attgccaagg aatgtgagcg gtacttagca cctaagggat 180  
ttggaggggt gcaggctctt ccacccaatg aaaatattat aattaataat ccatcaaggc 240  
cttgggtggga aagatatcaa ccaatcagct acaaaatttg ctcaaggctt ggaaatgaaa 300  
atgaattcaa aggatggctc gag 323

<210> 2095

<211> 176  
<212> DNA  
<213> Rattus sp.

<400> 2095  
gaattcggcc aaagaggcct attataagag ttgcttttgg catgggttct cttataagga 60  
caatatttaa ttggggctgg cttatagatt ccgagggtct agcagaactt gccctcatca 120  
gttcaaagcc tgaattgttt cctcatacac taggtactgc gtcaacatac ctcgag 176

<210> 2096  
<211> 176  
<212> DNA  
<213> Rattus sp.

<400> 2096  
gaattcggcc aaagaggcct attataagag ttgcttttgg catgggttct cttataagga 60  
caatatttaa ttggggctgg cttatagatt ccgagggtct agcagaactt gccctcatca 120  
gttcaaagcc tgaattgttt cctcatacac taggtactgc gtcaacatac ctcgag 176

<210> 2097  
<211> 150  
<212> DNA  
<213> Rattus sp.

<400> 2097  
gaattcggcc aaagaggcct acccccact agaaaaattg ttatgggtat tggcatttat 60  
ttattcatca tatacttatt agggcagcta aaaaagtcta atgcctctgt catgtattac 120  
cacagaagcc aagcccagca caaactcgag 150

<210> 2098  
<211> 323  
<212> DNA  
<213> Rattus sp.

<400> 2098  
gaattcggcc aaagaggcct agcaaaatga agtttgttct gctgctttcc ctcattgggt 60  
tctgctgggc tcaatatgac ccacacactg cggatgggag gactgctatt gtccacctgt 120  
tcgagtggcg ctgggctgat attgccaagg aatgtgagcg gtacttagca cctaagggat 180  
ttggaggggg gcagggtctct ccacccaatg aaaatattat aattaataat ccatcaagcc 240  
cttgggtggg aagatatcaa ccaatcagct acaaaatttg ctcaagggtc ggaaatgaaa 300  
atgaattcaa aggatggctc gag 323

<210> 2099  
<211> 178  
<212> DNA  
<213> Rattus sp.

<400> 2099  
gaattcggcc aaagaggcct aagcattgac catgagggtg accctgttat tggctgccct 60  
acttgggtat atctactgtc aagaaacggt tgtgggagat caagttcttg agatcatccc 120  
aagtcatgaa gagcaaatta gaactctgct gcaattggag gctgaagagc atctcgag 178

<210> 2100  
<211> 344  
<212> DNA  
<213> Rattus sp.

<400> 2100  
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tttattttat ttcttttttt tttttttttt gccaaaagat gagttgtggt tgtttgaaat 120

ctgagacact gtgttccaac tgggtgtttct gttcaaaaagc atcctcattg tcttgaaaac 180  
 ccttccccag atgtcacact acatgtcagg tccaggagga tgactcgcaa gtcctacagg 240  
 tttcattacg aaaacttcaa ggttcccagt ggaacacctg aaaccgtcag ctgatgtca 300  
 ccaaattgctc gcccttcacc cctgcggggg cctggcagct cgag 344

<210> 2101

<211> 176

<212> DNA

<213> Rattus sp.

<400> 2101

gaattcggcc aaagaggcct attataagag ttgcttttgt catggtttct cttataagga 60  
 caatatttaa ttggggctgg cttatagatt ccgaggttct agcagaactt gccctcatca 120  
 gttcaaaagc tgaattgttt cctcatcac taggtactgc gtcaacatac ctcgag 176

<210> 2102

<211> 330

<212> DNA

<213> Rattus sp.

<400> 2102

gaattcggcc aaagaggcct aaaaatgaag tttgtttctgc tgctttccct cattgggttc 60  
 tgctgggctc aatatgaccc acacactgcg gatgggagga ctgctattgt ccacctgttc 120  
 gagtggcgct gggctgatat tgccaaggaa tgtgagcggc acttagcacc taagggtatt 180  
 ggaggggtgc aggtctctcc acccaatgaa aatattataa ttaataatcc atcaaggcct 240  
 tgggtggaaa gatatcaacc aatcagctac aaaatttgc caaggctcgg aaatgaaaat 300  
 gaattcaaag acatggtgac gagactcgag 330

<210> 2103

<211> 523

<212> DNA

<213> Rattus sp.

<400> 2103

gaattcggcc aaagaggcct aaacaattct gcaaaaataa tcatacccag cctggcaatt 60  
 gtctgtcctc cgggtccattg ctccgccgcc gtccacagtc gcttgcaagg gaaggcactg 120  
 aatttaccgc ggccagaaca tccctcccag ccggcagttt acaatgctgc gaactaagga 180  
 tctcatctgg actttgtttt tcctgggaac tgcagtttcc ctgcaggtag atattgttcc 240  
 cagccaagga gaaatcagcg ttggagagtc caaattcttc ctgtgtcaag tggcaggaga 300  
 tgccaaagat aaggacatct cctggttctc ccccaacggg gagaactga gcccaaacca 360  
 gcagcggatc tcagtgggtg ggaacgatga tgactcctct accctcacca tctacaacgc 420  
 caacattgat gatgccggca tttacaagtg cgtggtcacc gctgaagacg gcaccagtc 480  
 cgaggccact gtcaatgtga agatcttcca gaagacactc gag 523

<210> 2104

<211> 150

<212> DNA

<213> Rattus sp.

<400> 2104

gaattcggcc aaagaggcct acccccact agaaaaattg ttatgggtat tggcatttat 60  
 ttattcatca tatacttatt agggcagcta aaaaagtcta atgcctctgt catgtattac 120  
 cacagaaggc aagcccagca caaactcgag 150

<210> 2105

<211> 176

<212> DNA

<213> Rattus sp.

<400> 2105

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gaattcggcc aaagaggcct attataagag ttgctttggt catggtttct cttataagga 60
caatatttaa ttggggctgg cttatagatt ccgaggttct agcagaactt gccctcatca 120
gttcaaagcc tgaattgttt cctcatacac taggtactgc gtcaacatac ctcgag 176

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<210> 2106

<211> 345

<212> DNA

<213> Rattus sp.

<400> 2106

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gaattcggcc aaagaggcct acttggtaga ttatccaaac atcgtaaat tttcatgcta 60
tttattttat ttcttttttt tttttttttt tgccaaaaga tgagttgtgt ttgtttgaaa 120
tctgagacac tgtgttccat ttggtgtttc tgttcaaata cctcctcatt gtcctggaaa 180
cccttcccca gatgtcacac tacatgtcag gtccaggagg atgactcgca agtcctacag 240
gtttcattac gaaaacttca aggttcccag tggaaacctg gaaaccgtca gctgatgctc 300
accaaatgct cgcccttcac ccctgcgggg gcctggcagc tcgag 345

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<210> 2107

<211> 176

<212> DNA

<213> Rattus sp.

<400> 2107

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gaattcggcc aaagaggcct attataagag ttgctttggt catggtttct cttataagga 60
caatatttaa ttggggctgg cttatagatt ccgaggttct agcagaactt gccctcatca 120
gttcaaagcc tgaattgttt cctcatacac taggtactgc gtcaacatac ctcgag 176

```

<210> 2108

<211> 176

<212> DNA

<213> Rattus sp.

<400> 2108

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gaattcggcc aaagaggcct attataagag ttgctttggt catggtttct cttataagga 60
caatatttaa ttggggctgg cttatagatt ccgaggttct agcagaactt gccctcatca 120
gttcaaagcc tgaattgttt cctcatacac taggtactgc gtcaacatac ctcgag 176

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<210> 2109

<211> 203

<212> DNA

<213> Rattus sp.

<400> 2109

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gaattcggcc aaagaggcct agctctgaac tctggactct gggaaaagca ttgaccatga 60
ggttgacctt gttattggtt gccctacttg ggtatatcta ctgtcaagaa acgtttgttg 120
gagatcaagt tcttgagatc atcccaagtc atgaagagca aattagaact ctgctgcaat 180
tggaggctga agagcatctc gag 203

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<210> 2110

<211> 323

<212> DNA

<213> Rattus sp.

<400> 2110

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gaattcggcc aaagaggcct agcaaaatga agtttgttct gctgctttcc ctcattgggt 60
tctgctgggc tcaatatgac ccacacactg cggatgggag gactgctatt gtccacctgt 120
tcgagtggcg ctgggctgat attgccaaag aatgtgagcg gtacttagca cctaagggat 180
ttggaggggg gcaggtctct ccaccaatg aaaatattat aattaataa ccatcaaggc 240
cttggtggga aagatatcaa ccaatcagct acaaaatttg ctcaaggctt ggaaatgaaa 300
atgaattcaa aggatggctc gag 323

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<210> 2111  
 <211> 308  
 <212> DNA  
 <213> Rattus sp.

<400> 2111  
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 ctccctccca cctctcacc ttctccatcc cctccctc tttcttttg tactttccag 120  
 ctggagcagc agcagcagct gggcctgaat caatgattga cttccccacg acctccctt 180  
 ctcttttgcc aatgatattc ttttgccctt ccagtcattc ttttaatttta tcgtgtatgg 240  
 ttttgcttct ccttctctct cctctctctc tccctcttcc tccccctct cccccaccga 300  
 cagtcgag 308

<210> 2112  
 <211> 203  
 <212> DNA  
 <213> Rattus sp.

<400> 2112  
 gaattcggcc aaagaggcct agctctgaac tctggactct gggaaaagca ttgaccatga 60  
 ggttgaccct gttattggct gccctacttg ggtatatcta ctgtcaagaa acgtttgtgg 120  
 gagatcaagt tcttgagatc atcccaagtc atgaagagca aattagaact ctgctgcaat 180  
 tggaggctga agagcatctc gag 203

<210> 2113  
 <211> 402  
 <212> DNA  
 <213> Rattus sp.

<400> 2113  
 gaattcgtcc aaagaggcct aactgacaa cttcaaagca aaatgaagtt cgttctgctg 60  
 ctttccctca ttgggttctg ctgggctcaa tatgaccac aactgcgga tgggaggact 120  
 gctattgtcc acctgttctg gtggcgctgg gctgatattg ccaaggaatg tgagcggtag 180  
 ttagcaccta agggatttgc aggggtgcag gtctctccac ccaatgaaaa tattataatt 240  
 aataatccat caaggccttg gtgggaaaga tatcaaccaa tcagctacaa aatttgctca 300  
 aggtcttgaa atgaaaatga attcaaagac atggtgacga ggtgcaacaa tgttggtgtc 360  
 cggatttatg tggatgctgt cattaatcac atgacactcg ag 402

<210> 2114  
 <211> 545  
 <212> DNA  
 <213> Rattus sp.

<400> 2114  
 gaattcggcc aaagaggcct aggggtcggc agaaggcttc aggtcccctg aacttggggt 60  
 tactggtgac gggcactgcc atgtggatgc cgggggctgg acctggacta tcgggaagag 120  
 caggcactgc tggctgctga gtcatggctc tcacctcgct tgctcttgag acaggacct 180  
 gcttcgcaat aggccagggt ggtcttgacc gtattacgta gtccagggtta acctgaact 240  
 caaactcctc ttatgtctcg ggtcccaaaa ggtgggaatt tccgtgttg gacgccatgc 300  
 cgggtactct gtgctctagg attttattct gttttattcc attgcattgc tgggccttga 360  
 ggatgctctg atctgtgata gcatattgga cctcctgctg ttgtctaagg atacagtgc 420  
 cattcacggt ccctgcagtc ttccaagact ctcttcaaag gacaattgtg ggcttccaaa 480  
 acaatcttag tgcccgctgc ttctccatta ccatagccaa cacgttctca cccacaaaac 540  
 tcgag 545

<210> 2115  
 <211> 427  
 <212> DNA  
 <213> Rattus sp.

<400> 2115  
 gaattcggcc aaagaggcct agagcttttc ggtgtatgta ccctggaggt caagattatg 60  
 caggattttcc tggttgtggt ttactccgac tgcatagcac ctacagacac gacctcaaaa 120  
 tatatgcctc tgatgaaggg cgggtccaga tgacggcagc tgccttcgca aagggtctct 180  
 tggctctaga aggagagctt acccccatc tggttcagat ggtgaaaagt gcaaatatga 240  
 acggcctttt ggacagcgac agtgactctt tgagtagctg tcagcagcgt gtgaaagcga 300  
 ggcttcatga gatacttcag aaagacagag attttacagc cgaagactac gagaagctta 360  
 ctccatctgg aagcatttct gttatcaaat caatgcactt aattaaaac ccagtgaaaa 420  
 cctcgag 427

<210> 2116  
 <211> 178  
 <212> DNA  
 <213> Rattus sp.

<400> 2116  
 gaattcggcc aaagaggcct aagcattgac catgaggttg accctgttat tggctgccct 60  
 acttgggtat atctactgtc aagaaacgtt tgtgggagat caagttcttg agatcatccc 120  
 aagtcacgaa gagcaaatta gaactctgct gcaattggag gctgaagagc atctcgag 178

<210> 2117  
 <211> 314  
 <212> DNA  
 <213> Rattus sp.

<400> 2117  
 gaattcggcc aaagaggcct actccacact catcttttaa ttttgaaagc ctcagaacac 60  
 ctggaccact tctttgaaa actgttctac cagcaacaag tcatccactg cgatcctgtt 120  
 gagcatagcc acatctgagt tttccaagtc taaacaggac tgcctctgat tttcccatga 180  
 agctgcatta ttgtctgtcc atcttactgg tggtcacttt tgtgccaact gctctggttt 240  
 tggaagatgt gactccactg ggaacgaatc agagttcata caatgcacatc tttcttttga 300  
 gctttacact cgag 314

<210> 2118  
 <211> 323  
 <212> DNA  
 <213> Rattus sp.

<400> 2118  
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 tctgctgggc tcaatatgac ccacacactg cggatgggag gactgctatt gtccacctgt 120  
 tcgagtggcg ctgggctgat attgccaagg aatgtgagcg gtacttagca cctaagggat 180  
 ttggaggggt gcaggctctc ccaccaatg aaaatattat aattaataat ccatcaaggc 240  
 cttgggtggga aagatatcaa ccaatcagct acaaaatttg ctcaagggtc ggaaatgaaa 300  
 atgaattcaa aggatggctc gag 323

<210> 2119  
 <211> 579  
 <212> DNA  
 <213> Rattus sp.

<400> 2119  
 gaattcggcc aaagaggcct agagcaatgg tcaacacctt tctctgcctt ggggctgggc 60  
 aaaccaacag tccaggcaaa aggcagggca ctttctggag gaggtgtcag caccaaggca 120  
 gatggctgac tccaaagctc tccgtgctct cctgcatggg gcctaaatga tggcatgagc 180  
 cggctcctct ggcttatctg ggttccaatc cttggtagga ttagtctgca ggggctgcat 240  
 gtagggcaga gctcaccaaa ccaagactta cacttcctca gccctggaa gcacagctac 300  
 aaaatcactg gacttcaaac cagaaaaccc agccttgaca cagtacagat gacaaccatc 360  
 tggctcactt gaatgtaaag cgacccaca cacacttgca tttgtaggca gggacgctca 420  
 cattgtccta ggcttccttg gccggaatga agcaaaccag agctcaaacc aagcagagt 480

actccaagcc tgtccatagc caccactat gcttaagtaa gatgtcctcc ctcaaagctg 540  
ctgcagtaaa gccatgagca gattcctgtt ctgctcgag 579

<210> 2120

<211> 310

<212> DNA

<213> Rattus sp.

<400> 2120

gaattcggcc aaagaggcct aagcttgggc gcagaacaca ctcaaagttc ccaaaggagc 60  
tccacctgtc tatacctcct ctccagctcag tcccacaagg cagaataaaa aaatgaagac 120  
cgtttacatc gtggtcgat tgtttgtaat gctggtacaa ggcagctggc agcatgcccc 180  
tcaagacacg gaggagaacg ccagatcatt cccagcttcc cagacagaac cacttgaaga 240  
ccctaatacag ataaacgaag acaaacgcca ttcacagggc acattcacca gtgactacag 300  
cgactcgag 310

<210> 2121

<211> 354

<212> DNA

<213> Rattus sp.

<400> 2121

gaattcggcc aaagaggcct agtggggtag gaactgaagg aaatatagga ccatgcaggg 60  
atattatctc aatgagagaa gttctgatta tattaggaat ccaccaaga ccatcattgt 120  
gactggatcc acacagctaa gtctttgctc agtgaacatg gtcaagaaga ggctggaaaa 180  
acccaaagca cacagttacc ttccatggg aggctaagct atcaaaagcg gtgttcagtt 240  
atacaacaag caagccaagc caccaaatta caaacagtgg tgttacatat ttctcgtgca 300  
atgtgggttt cctgctaaat ttgtgtgtt ttacacttga ttatatcct cgag 354

<210> 2122

<211> 435

<212> DNA

<213> Rattus sp.

<400> 2122

gaattcggcc aaagaggcct ataaaattat taagtatata tccaaatttc aaactcctct 60  
ttcccaaac aacgtggcg agcctagcaa gttagcaaaa atctttgtta agaatataga 120  
atagcgctca ccatagggtc tgtgttccaa agccacacct cagttccccc actatcagaa 180  
taccatacta gtggttctta actagtaaag gctaaagaga acctttactt tcccactatc 240  
ctcagcaacc taggtctttt actgtattca ccaatgccca ttgtacatca gtttttcttc 300  
catccttctt ccttaactgc ctccctttct tacttctttt tgtttcaaat ctctttctgt 360  
ttatttcttt tgtgtctgtg gacattcact gggacgtggc atggcagatg tatggacaca 420  
acggggcagc tcgag 435

<210> 2123

<211> 339

<212> DNA

<213> Rattus sp.

<400> 2123

gaattcgcca aagaggccta ccaaaagggt ctgctacatc ttaggaaggt agagaccctt 60  
gggtggccgc cctttagaag agcagctgcg cagggtctgg acattttaat gaaggctctg 120  
tattaaagag ttggtctttt ctttccttat ctttctctt atttggaat gtcctcctct 180  
aatctcccct aatcccaccc cctccttgtg gggcagggga ccaggcagcc tggagaggcc 240  
aagagaggag ctgcaggatt ggggtgggca ctggcaggag actcccacgt agccctgtgc 300  
atggggtggt tgcataattg caggtaaag cactcgag 339

<210> 2124

<211> 323

<212> DNA

<213> Rattus sp.

<220>

<221> unsure

<222> (114)

<220>

<221> unsure

<222> (120)

<220>

<221> unsure

<222> (191)

<400> 2124

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gaattcggcc aaagaggcct agcaaaatga agtttgttct gctgctttcc ctcattgggt 60
tctgctgggc tcaatatgac ccacacactg cggatgggag gactgctatt gtcnacctgn 120
tcgagtggcg ctgggctgat attgccaagg aatgtgagcg gtacttagca cctaagggat 180
ttggaggggt ncaggtctct ccaccaatg aaaatattat aattaataat ccatcaaggc 240
cttggtggga aagatatcaa ccaatcagct acaaaatttg ctcaaggctc ggaaatgaaa 300
atgaattcaa aggatggctc gag 323
```

<210> 2125

<211> 320

<212> DNA

<213> Rattus sp.

<400> 2125

```
gaattcggcc aaagaggcct atgactatag ggaaagtcac atgggcatat acaagtgtca 60
aactcggaat ctgcacgcca tgaacatgta taatttacca tatgtcaaag aagccatttt 120
tgggtttttg ggggtgggtt tgtgtgtttg tttgtttgtc ttttaaagtc tgttgcccag 180
caagtggct cagtgggtaa aggtgtttgc tccaaagctt aaagcctggg ctcaatcgcg 240
agaactcatg tggtagaacg ggagagccca ccattacaaa ctgtgctttg acttccatat 300
gtctgcccac aacactcgag 320
```

<210> 2126

<211> 316

<212> DNA

<213> Rattus sp.

<400> 2126

```
gaattcggcc aaagaggcct acagccaagg actaactacg accatgagat tggcagtgat 60
ttgcttttgc ctatttggca ttgcctcttc cctcccgtg aaagtgactg attctggcag 120
ctcagaggag aagaagcttt acagcctgca cccagatcct atagccacat ggctggtgcc 180
tgacccatct cagaagcaga atctccttgc gccacagaat gctgtgtcct ctgaagaaaa 240
ggatgacttt aagcaagaaa ctcttccaag caattccaat gaaagccatg accacatgga 300
cgacagtgat gtcgag 316
```

<210> 2127

<211> 138

<212> DNA

<213> Rattus sp.

<400> 2127

```
gaattcggcc aaagaggcct acgagtgggt atggtgatga tgatgggtgt ggtgattatg 60
atgataatga tgggtgatgac cacagtgtat gatctgagag gtgctgactg gtgagaggca 120
ggtctagaat tcaatcgg 138
```

<210> 2128

<211> 395

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2128

```

gaattcggcc aaagaggcct actgtcgggc aagtgcatt ctagactgag catggttttc 60
tggaacagat gatcttggat gatcaggaat ccgaggacct ggaccgtcca tcattgagcc 120
accagtttgc tggagcacag acatgggtgt tctagcactt ccaaggggtt ctagcattcc 180
aggtgatcta catcgttcaa gaggagtggg tgacatgcta ggacgactaa aacagctcat 240
tctagagcta ctaagtgcta caggaggtgt ccgagatcca gaatgattcc ttgttgctgg 300
aggagtggca gaacgtgagc gatcagaact acttccagat gcagaccgcc tacggatggc 360
tgaggagat cttgttaaag atcgcttgcc tcgag 395

```

&lt;210&gt; 2129

&lt;211&gt; 323

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2129

```

gaattcggcc aaagaggcct agcaaaatga agtttgttct gctgctttcc ctcattgggt 60
tctgctgggc tcaatatgac ccacacactg cggatgggag gactgctatt gtccacctgt 120
tcgagtggcg ctgggctgat attgccaagg aatgtgagcg gtacttagca cctaagggat 180
ttggaggggt gcaggtctct ccacccaatg aaaatattat aattaataat ccatcaaggc 240
cttggtggga aagatatcaa ccaatcagct acaaaatttg ctcaaggtct ggaaatgaaa 300
atgaattcaa aggatggctc gag 323

```

&lt;210&gt; 2130

&lt;211&gt; 386

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2130

```

gaattcggcc aaagaggcct aagaaacgcc tgggccttcg gaaaggagtg attgattagt 60
acttgcaagt ttaggtgact ttaaggagaa ctaactaatg tatactattg agggaggagg 120
aagagcatta cagagtttcc agcagcagca ggaaagcttt ggtagtttg gaaatggatg 180
atagcattaa aataacagaa gcgcctccag gtctctgaag cttcagtccc ccagctgaaa 240
gccagaaaag actaagccca ctaagccttt tgatcccttt ggaagcaaaag aactttcctt 300
ccctggggtg aagactctcc tcagaagatt tcctgtctct gcctatgtta caagaggaat 360
caaaaccaag acagaagagc ctcgag 386

```

&lt;210&gt; 2131

&lt;211&gt; 202

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2131

```

gaattcggcc aaagaggcct acaactaaa aaattcttta gccacttct taccgcaagg 60
aacccecatc tcaactaatc ccataactaat catcatcgaa actatcagcc tatttattca 120
accgatagca ctagcagtag gactaacagc aaacattaca gcaggccatc tattaatgca 180
tctaatecga gagctctcag ag 202

```

&lt;210&gt; 2132

&lt;211&gt; 386

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2132

```

gaattcggcc aaagaggcct aggagaggtg tttctgacat ccagtgttgc agagtggggg 60
ggaggggtcaa acccagtcac ctcaggatct ttgctgagca gaaggacaca aggagaggcc 120
agtggggcct gactccaggg aaattgatac cattaagcat gtttggtaat tggatcggtt 180
ttagtattat caaaggtgaa taaagttaat tctgtgattc tgagaatggt aaataatgat 240

```

tataataaaaa ttttaatcga attagaattc ttgccagaga gggaaagggg agtgaggaaa 300  
gccacgggtgc ccgtctccga gtgtcatcga ggtcaggggt ggggctcagt cctactcagg 360  
agtccttgt tggcagggac ctcgag 386

<210> 2133

<211> 403

<212> DNA

<213> Rattus sp.

<400> 2133

gaattcggcc aaagaggcct agcgcgcggt cccaccttcg tcgcgcacac tggctaggcg 60  
agctcgagc gctctacgac tctgcggctc ggaactcggg ccgcagggct gaacaccccc 120  
actgtggtat ttaaaaaaag aaagaaagaa agaaagaaga catttccttg ctttttcctc 180  
ttttcttctc tttctcgcac ggttttctac cgtagtggct agcggagccg gcagccttcc 240  
caaggcagcc ctgggttggt tggcctcctc catctggctt ataaaagttt gctgagtgcg 300  
gtccagaggg ctgcgcggct cgtccctcctg gctggcgga gggggtgacg ctgggcagcg 360  
gctaaggagc gcgccgcagg ctctggcggg ctttcggctc gag 403

<210> 2134

<211> 343

<212> DNA

<213> Rattus sp.

<400> 2134

gaattcggcc aaagaggcct aaagaaacga atttcctcac cagatcggaa gggaagaaaa 60  
tccttcaagt agaaggggag ggggtgtgtt gtgttttgta tttttttata taaggctctc 120  
ttgtataacc ttgggtggcc tggaccacaca gagatctgcc ggcctctgcc ttacagtgcg 180  
gagataaaaa gcacacacca ccacgcacca ctattttggg tgggtgtgggt tacttttgtt 240  
ttgttttgtt ttgttttgtt ttgagacggt ttctctgtgt agccctggct gtcctggaac 300  
ctactctgta gaccaggtg gtcttgaact cagatccctc gag 343

<210> 2135

<211> 150

<212> DNA

<213> Rattus sp.

<400> 2135

gaattcggcc aaagaggcct acccccact agaaaaattg ttatgggtat tggcatttat 60  
ttattcatca tatacttatt agggcagcta aaaaagtcta atgcctctgt catgtattac 120  
cacagaaggc aagcccagca caaactcgag 150

<210> 2136

<211> 344

<212> DNA

<213> Rattus sp.

<400> 2136

gaattcggcc aaagaggcct acttggtaga ttatccaaac atcgtcaaat tttcatgcta 60  
tttattttat ttcttttttt tttttttttt gccaaaagat gagttgtgtt tgtttgaaat 120  
ctgagacact gtgttccatt tgggtgttct gttcaaatgc atcctcattg tcctggaaac 180  
ccttccccag atgtcacact acatgtcagg tccaggagga tgactcgcaa gtcctacagg 240  
tttcattacg aaaacttcaa ggttccagc ggaacactgg aaaccgtcag ctgatgetca 300  
ccaaatgctc gcccttcacc cctgcggggg cctggcagct cgag 344

<210> 2137

<211> 525

<212> DNA

<213> Rattus sp.

<400> 2137

```

gaattcggcc aaagaggcct agcctctttg gccggccaaa gaggcctagg tcgtggggta 60
agaacagtcct gaccccttggc cagtgttgaa ggctgggcgg ttttccagct ctataactgt 120
tttgcccttct ctggaaaagct cagtcacttc acagggtgtag tttcccaacca cagcctcatg 180
ggatccatt gtcaaagagg caatgccttt gagcaagtct gagaccgaga tttttgact 240
ggtaaagttt tgttctctag tagtgctatt tttatttcca tcatagatga aaatatacga 300
tttgttcaac ttccacttca caaacatttc atcggtgctt tgggcttcca cattaaggac 360
tttgcaaggg atgaccacag tgtcattgca tgacgtgaac tctacagatt tgactttact 420
aagcaggagt tgagctgaac cgcagcagca ggagcccagc aacagcgcg cgcgaagg 480
ccacatctcc gcgcgcgcgg gggtcgccgc cgcaggtgtc tcgag 525

```

&lt;210&gt; 2138

&lt;211&gt; 198

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2138

```

gaattcggcc aaagaggcct agaactctgg actctgggaa aagcattgac catgagggtg 60
accctgttat tggctgcctt acttgggtat atctactgtc aagaaacgtt tgtgggagat 120
caagttcttg agatcatccc aagtcataaa gagcaaatga gaactctgct gcaattggag 180
gctgaagagc atctcgag 198

```

&lt;210&gt; 2139

&lt;211&gt; 311

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2139

```

gaattcggcc aaagaggcct actgccgaat actgattaca tattccttga aatcaaactc 60
ttcagtatag aagcgaagta gtcctaacca aagctctcct agtgattccg tgttctttcc 120
aagtgaaggt aaacgctttt tcagttcttc tgttttatca aagaaaaagg cattccatcc 180
atccaccatt ctctgtggaa tctgctttcc atcaaagatc tcttgacaga ctgggataac 240
tgggtggctt cgttgctgca gaaagtacag caccataagg atataagcat atgaagataa 300
acttctcga g 311

```

&lt;210&gt; 2140

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2140

```

gaattcggcc aaagaggcct accatcatgg cgtaccgcgg ccagggccag aaggtgcaga 60
aggtgatggg gcagcccatc aaccttatct tcagatactt gcaaaaataga tctcgaattc 120
agggtggtgt gtatgaacaa gtgaatatgc ggatagaggg ttgtattatt ggctttgatg 180
agtacatgaa cctcgtatta gatgatgcag aagaaattca ttctaaaaca aagtcaagaa 240
aacaactggg tcggatcatg ctcaaaggag ataattattc tctgctcaa agcgtttcca 300
actagcagtg gccaagcatg ggagaggttg agaaggggct caggggctgc tggtgactac 360
atttactcat cctgtttcac ttgtacattc tcattggggg aactcgag 408

```

&lt;210&gt; 2141

&lt;211&gt; 429

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2141

```

gaattcggcc aaagaggcct agaaaagtcc tccaattagt ataataaatg agtatttccc 60
gtactgagta atatttcac ccccggttag cacaggctaa ggtgaaactg tttcatatgt 120
ttgatagaat agtctaactt tgatttttaa acgaccaaca ctttggccga attgagtggt 180
gggaaaagtc ccgagtcctt gttgcttctt ggttttctat tcttctgtgg taactttact 240
gttaagtttc ttctttagcc atgattggca aattgtattt tctttaaaaa tcatgctttg 300
tgcacatttt caaggaggtt agtgtcactt aatggaggct tacgtgtttt tatgaattgg 360

```

ttacacagga cagaagccca acactaacia agacagggat aaaattgtct cctgggtgtgc 420  
cgtctcgag 429

<210> 2142

<211> 524

<212> DNA

<213> Rattus sp.

<400> 2142

gaattcggcc aaagaggcct acagctgttc agaaaagaag aacatggaaa aactgtcaac 60  
agtctctctt aatgagcaca cttgaaattt gaatgtcaga atgaacaata ataataacta 120  
ttttaaccac tgtctccata ctcataaaag ataaaagaaa tggaaatttc atggtaagt 180  
gagtatttgc ctggtctcaa agtgccttct cacagaatat ttactgatga cacaggggaa 240  
aagagtagct tcatggtact agatgctaga ggacgtcact tgcacagatg atcagagtaa 300  
acactggtaa tggatggatc aggcctacac catctggtag agcagagctc agcatggctt 360  
acatgctggt cctgccaaaag gtgcgtgacc tggactgagc tgtgaggaag caccttctac 420  
agagcagctg agctggaaaac tctcacggtc atcaacatcc agggaagact tagggacttt 480  
tgaaactgat gggctctttt aaaaccccca tggcagcact cgag 524

<210> 2143

<211> 553

<212> DNA

<213> Rattus sp.

<400> 2143

gaattcggcc aaagaggcct acgctacttc cttgaccag aaaacccac gaaatcatgc 60  
aagtcaagag gctcaaacct tcgtgttcac tttaagaaca cccgggaaac tgcccaggcc 120  
atcaagggtg tgcataatcc caaagccacc aagtatctga aggatgtcac tttaagaag 180  
cagtgtgtgc cattccggcg gtataatggt ggagttggtg ggtgcgcccc ggccaaacag 240  
tggggctgga cacagggacg gtggccaaaa aagagtgtctg aatttttgct gcacatgctt 300  
aaaaatgcag agagtaatgc tgaacttaag ggtttggatg tagactctct ggtcattgaa 360  
cacatccagg tgaacaagcg tcctaagatg cgcagacgga cctacagagc tcacggcccg 420  
attaacccat acatgagctc ccctgccac atcgagatga tcctcactga gaaggaacag 480  
attgttccaa agccagaaga ggaggttgca cagaagaaaa agatatccca gaagaaattg 540  
aagaaagctc gag 553

<210> 2144

<211> 454

<212> DNA

<213> Rattus sp.

<400> 2144

gaattcggcc aaagaggcct agaggaagca gacacagtat cagtgtgtgt gaggggggag 60  
accttgcccc tcctctgaca gtcagtttac cctccaagct cttgagttca aatcagagt 120  
ccacactggg gtaccaccca ggaatgcttt agtgctgtg ggcaaggggc aaggttgccg 180  
gaagggtttg aacatttgag aatggttaat aaaattgagc cgattgatgg tgggagagac 240  
ggcgtaaatg ttaagaaaga gtatgtacag ctgccaaagga cccagtttt gttttcagca 300  
acctaagttg tttgtacctt agaactgtct gtaacttggg cagctcataa atgcctgtaa 360  
ctccagctc tgcactctaa atgtactcta agttacatgc agatacacac atgtagttaa 420  
aaataataaa aatctgaaaa caaaggagct cgag 454

<210> 2145

<211> 314

<212> DNA

<213> Rattus sp.

<400> 2145

gaattcggcc aaagaggcct actccacact catcttttaa ttttgaaagc ctcagaacac 60  
ctggaccact tctttgaaa actgttctac cagcaacaag tcactccactg cgatcctgtt 120  
gagcatagcc acatctgagt tttccaagtc taaacaggac tgctctgat tttcccatga 180

agctgcatta ttgtctgtcc atettactgg tggtcacttt tgtgccaaact gctctgggtt 240  
 tggagatgt gactccactg ggaacgaatc agagttcata caatgcatca tttctttcga 300  
 gctttacact cgag 314

<210> 2146  
 <211> 473  
 <212> DNA  
 <213> Rattus sp.

<400> 2146  
 gaattcggcc aaagaggcct aaggacgagg atataaatgc tatagaaatg gaagaagaca 60  
 aaagagattt gatatcccg gagatcagca agttcagaga cacacacaag aaactggaag 120  
 aagagaaaagg caaaaaagaa aaagaaaagac aggaaattga gaaagaacgg gagagagaac 180  
 gggagagaga gagagaacgg gagagagaac gggagcgtga aagagagaaa gacaagaaaa 240  
 gagacagaga agaggatgaa gaagatgcat atgaacgaag aaaacttgaa agaaaactgc 300  
 gagagaaaaga ggctgcgtat caagagcgcc ttaagaattg ggaaatcaga gaacgaaaaga 360  
 aaactaggya atatgagaag gagggcgaaa gagaagaaga aagaagaaga gaaatggcta 420  
 aagaggctaa acgattaaaa gaattcctag aagattatga cgatgacctc gag 473

<210> 2147  
 <211> 104  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> unsure  
 <222> (42)

<400> 2147  
 gaattcggcc aaagaggcct aggtgggtgg tagtgctagg tnggctaagc ttgctaatag 60  
 tcatcatgtt gctatcaatg gaaagattat ttgtaatcct cgag 104

<210> 2148  
 <211> 334  
 <212> DNA  
 <213> Rattus sp.

<400> 2148  
 gaattcggcc aaagaggcct aaagaggtgc tgaagaagaa ctgcccacac attgttgtgg 60  
 ggactcctgg ccgaattcta gccctggccc gaaataagag cctgaacctc aaacacatta 120  
 aacactttat cttggacgaa tgtgacaaga tgcttgaaca gctcgacatg cgtcgggatg 180  
 tccaggaaat ttttcgcatg accccccatg agaagcaggt catgatgttc agtgctacct 240  
 tgagcaaaga gatccgcccc gtgtgccgca agttcatgca agatgtaaat accttctacc 300  
 ttctctccct ccaactccccg cccgcatgct cgag 334

<210> 2149  
 <211> 489  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> unsure  
 <222> (106)

<220>  
 <221> unsure  
 <222> (130)

<220>  
 <221> unsure

&lt;222&gt; (164)

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (241)

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (273)

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (364)

&lt;400&gt; 2149

```

gaattcggcc aaagaggcct acagtccecg gttataccat ttataaacat gcagatgtag 60
actattaaag attaatgcgt ttcaggattg gtgtggcatt ccgttngtct catgccgaaa 120
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caanacactt catttctatg cactactcat ttagccacca ttcccaaaa tggagcaaaa 420
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&lt;211&gt; 563

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&lt;400&gt; 2150

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&lt;211&gt; 523

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2151

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&lt;211&gt; 295

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2152

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&lt;211&gt; 460

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2153

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&lt;210&gt; 2154

&lt;211&gt; 365

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2154

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cgagtttgac cctgaggaag atgagcctac cttggaagcg gcctggccac atctccagct 240
tgtgtatgag tttttcttac gtttcttgga atctccagat ttccagccga atatagccaa 300
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tcgag      365

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&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2155

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&lt;211&gt; 359

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 2156

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ccctctgggc tccaccaaac tccatctcct gccctgggtc cccatgctcc attaatgcct 180

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 atttttttaa gcattgtcta ctttggtcat taagtattgt ctactttggt cattaagtaa 240  
 gtattgtcta ctttggtcat tctgaaaagc atctgctttc tgaattgtga ctatgtttgc 300  
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 gccactggaa gatctgtacc ctgcatgagt gatgaccccc atggctagat attatgtagt 240  
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<221> unsure

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<211> 15

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<400> 2165

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24

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US99/24205

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : C07K 14/435; C12N 15/12 US CL : 530/350; 536/23.5 According to International Patent Classification (IPC) or to both national classification and IPC																				
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 530/350; 536/23.5 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EMBL5, Genbank, USPAT issued, EMBLest58, Genbankest111 search terms: sequences corresponding to SEQ ID NO: 48, 79, 267, 531, 724, 802, 993, 1192, 1333, and 1416																				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>																				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N																		
X	WO 98/42738 A1 (HUMAN GENOME SCIENCES, INC.) 01 October 1998, pages 207-208, positions 402-730 of SEQ ID NO: 54 relevant to positions 21-350 of instant SEQ ID NO: 993.	4, 8																		
X	Database Genbank on STN, National Center for Biotechnology Information, (Bethesda, MD), Accession number C06368, TAKEDA, J., 'Direct Submission,' 11 October 1996, positions 16-372 relevant to positions 29-385 of instant SEQ ID NO: 1416.	4, 8																		
X	Database Genbank on STN, National Center for Biotechnology Information (Bethesda, MD), Accession Number AA491109, NCI-CGAP, 'National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index,' 15 August 1997, positions 1-136 relevant to positions 159-24 of instant SEQ ID NO: 1333.	4, 8																		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.																				
<table border="0"> <tr> <td>* Special categories of cited documents:</td> <td>*T</td> <td>later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>*A* document defining the general state of the art which is not considered to be of particular relevance</td> <td>*X*</td> <td>document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>*E* earlier document published on or after the international filing date</td> <td>*Y*</td> <td>document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>*L* document which may throw doubts on priority claim(s) in which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>*G*</td> <td>document member of the same patent family</td> </tr> <tr> <td>*O* document referring to an oral disclosure, use, exhibition or other means</td> <td></td> <td></td> </tr> <tr> <td>*P* document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table>			* Special categories of cited documents:	*T	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	*A* document defining the general state of the art which is not considered to be of particular relevance	*X*	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	*E* earlier document published on or after the international filing date	*Y*	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document combined with one or more other such documents, such combination being obvious to a person skilled in the art	*L* document which may throw doubts on priority claim(s) in which is cited to establish the publication date of another citation or other special reason (as specified)	*G*	document member of the same patent family	*O* document referring to an oral disclosure, use, exhibition or other means			*P* document published prior to the international filing date but later than the priority date claimed		
* Special categories of cited documents:	*T	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention																		
*A* document defining the general state of the art which is not considered to be of particular relevance	*X*	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone																		
*E* earlier document published on or after the international filing date	*Y*	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document combined with one or more other such documents, such combination being obvious to a person skilled in the art																		
*L* document which may throw doubts on priority claim(s) in which is cited to establish the publication date of another citation or other special reason (as specified)	*G*	document member of the same patent family																		
*O* document referring to an oral disclosure, use, exhibition or other means																				
*P* document published prior to the international filing date but later than the priority date claimed																				
Date of the actual completion of the international search 11 FEBRUARY 2000		Date of mailing of the international search report 29 FEB 2000																		
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230		Authorized officer JOHN S. BRUSCA Telephone No. (703) 308-0196																		

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US99/24205

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim ?
X	Database Genbank on STN, National Center for Biotechnology Information (Bethesda, MD) Accession Number AA442056, HILLIER et al, 'WashU-Merck EST Project 1997,' 02 June 1997, positions 60-226 relevant to positions 21-187 of instant SEQ ID NO: 1192.	4, 8

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US99/24205

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-8

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US99/24205

### BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack Unity of Invention because they are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for more than one species to be searched, the appropriate additional search fees must be paid. The species are as follows:

The nucleic acids of SEQ ID NO: 1-2159 and the corresponding polypeptides encoded by the nucleic acids of SEQ ID NO: 1-2159.

The claims are deemed to correspond to the species listed above in the following manner:

All claims are drawn to the species indicated above.

The following claims are generic: 1-8

The species listed above do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Each species is drawn to a different nucleic acid or corresponding encoded polypeptide. There is no disclosed relationship between the sequences of each individual species.

Restriction to a single species has been waived sua sponte and the Applicants are permitted to have ten species examined without payment of additional fees. The Applicants representative Suzanne Sprunger elected telephonically on 01 February 2000 to have the sequences corresponding to SEQ ID NOS: 48, 79, 267, 531, 724, 802, 993, 1192, 1333, and 1416 searched.